

SERVICE MANUAL

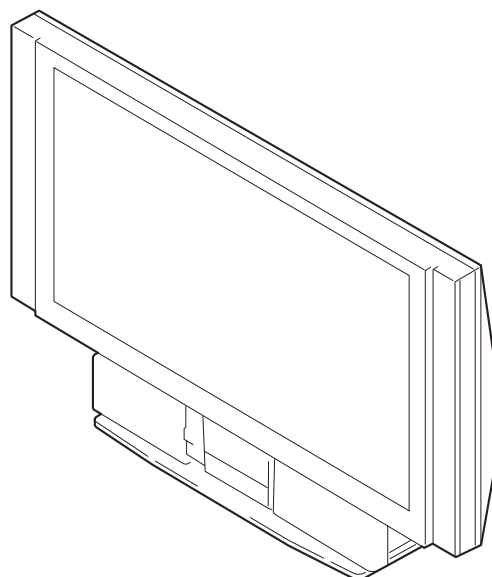
LE-3 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KF-50SX100</i>	<i>RM-903</i>	<i>AEP</i>	<i>SCC-P59A-A</i>
<i>KF-50SX100K</i>	<i>RM-903</i>	<i>OIRT</i>	<i>SCC-P60A-A</i>
<i>KF-50SX100U</i>	<i>RM-903</i>	<i>UK</i>	<i>SCC-P61A-A</i>

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
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RM-903



KF-50SX100/50SX100K/50SX100U

* Please file according to model size. ☐

SPECIFICATIONS

TV system

B/G/H, D/K, I, L

Colour system

PAL, SECAM

NTSC 3.58, 4.43 (only Video In)

Channel coverage

VHF: E2-E12

UHF: E21-E69

CATV: S1-S20










HYPER: S21-S41

D/K: R1-R12, R21-R69





I: UHF B21-B69

L: F2-F10, B-Q, F21-F69

Rear Terminals

-   Centre speaker input terminals (2 terminals)
-  (L, R) audio outputs (phono jacks)
-  1 /  21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
-  2 /  2 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output.
-  3 /  3 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, audio/video output (monitor out).

Front Terminals

-  4 S video input - 4 pin DIN
-  4 video input - phono jack
-  4 audio inputs - phono jacks
-  Headphones jack - minijack stereo

Sound output

2 x 30 W (music power)

2 x 15 W (RMS)

Centre SP input

30 W (RMS) (using as the centre speaker)

Power consumption

210 W

Standby Power consumption

< 1 W

Dimensions (w x h x d)

Approx. 1376 x 898 x 384 mm

Weight

Approx. 43 kg

Accessories supplied

1 Remote Control (RM-903)

2 Batteries (IEC designated)

1 Wrench

2 Brackets

2 Screws

1 Cleaning Cloth

Other features

Digital Comb filter (High resolution)

TELETEXT, Fastext, TOPtext (2000 page TEXT memory)

NexTVview

NICAM

Sleep Timer

Smartlink

Noise Reduction

Graphic Equaliser

Personal ID

SELF DIAGNOSIS FUNCTION

1-1. LE-3 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the LE-3 chassis is triggered in one of two ways : - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No. of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is Burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
SET 5V Down	2 times	Q1606, 1607 Power FET is shorted (G Board)	Power does not come on Load on power line has shorted

ERROR	STBY LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash)	01
SET 5V Down	02
Lamp Cover error	03
Fan error	04
Lamp Driver error	05
Not used	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT (IC9502)	09
NVM (IC9108)	10
Main colour decoder (IC8301)	11
MCP (IC701)	14
Multi sound processor (IC4702)	15
Auto Wide (IC8700)	16
External RAM (IC9107)	17
Lamp error	Lamp LED continuously on

Flash Timing Example : e.g. error number 3



1-2. ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors.
Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.
There are three step to check errors.

1. IIC line 0
- If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Each device check
- if IIC line error and board error are not detected then the device with an error is displayed.

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1-2-1. Error Monitor Menu

The error monitor menu is displayed by selecting Service mode : Monittinging. The following menu will be displayed:

Error Monitor

1

Ignore Errors

OFF

ON

ON

Operating Time :

000021 h 40 min

Stored Errors :

1. J-B MSP3410

2. B3-B CXA2101 MCP

3. J-B CXA2123 Main Col Dec

4. Error Code Not Valid

5. Error Code Not Valid

Current Error :

Start Error Sequence

Error Monittor

Error Monitor

1

LAMP

: 0

5

LAMP DRIVER

: 0

4

FAM

: 0

3

LAMP COVER

: 1

WDT-E

: 0

LCD-Engine error menu

1-2-2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10.

Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

Send Data to Error Reader				
Error Code	Data High	Data Low	Error Type	Function
00 00h	–	f0h	no device	
Gen. IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Device Error				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1301	Main Tuner
01 03h	f1h	03h	TU1302	Sub Tuner
BB Board				
04 01h	f4h	01h	CXD9509	MID-X
BB Board				
06 01h	f6h	01h	CXA2101	MCP
J Board				
04 04h	f4h	04h	TDA9178	Picture Booster
07 03h	f7h	03h	CXA2123	Sub Colour
07 04h	f7h	04h	CXA2123	Main Colour
07 0Ah	f7h	0Ah	CXA2149	AV SW
S Board				
07 05h	f7h	05h	CXA1875	Sub Sound
07 08h	f7h	08h	MSP3410D	Sound Proc
M Board				
08 01h	f8h	01h	ST24C32	NVM

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

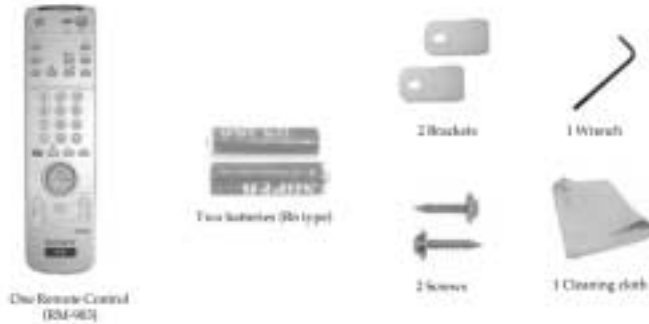
COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 GENERAL

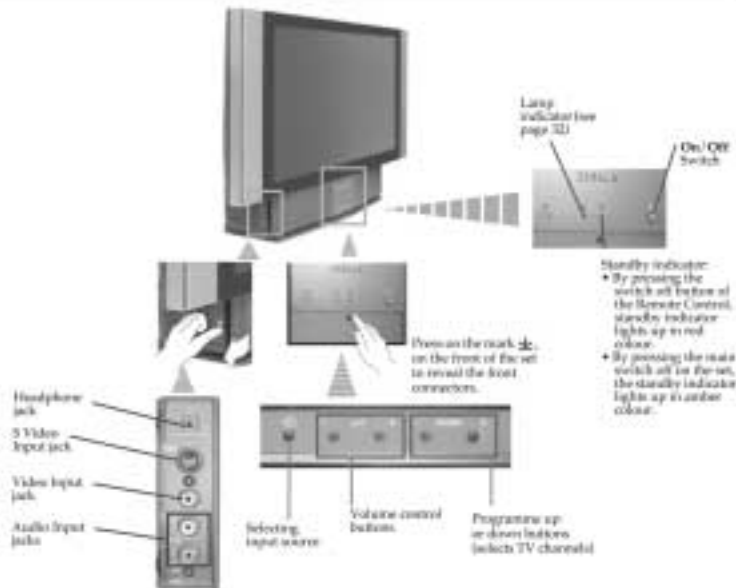
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 4-078-836-11)

Overview

Checking the Accessories Supplied

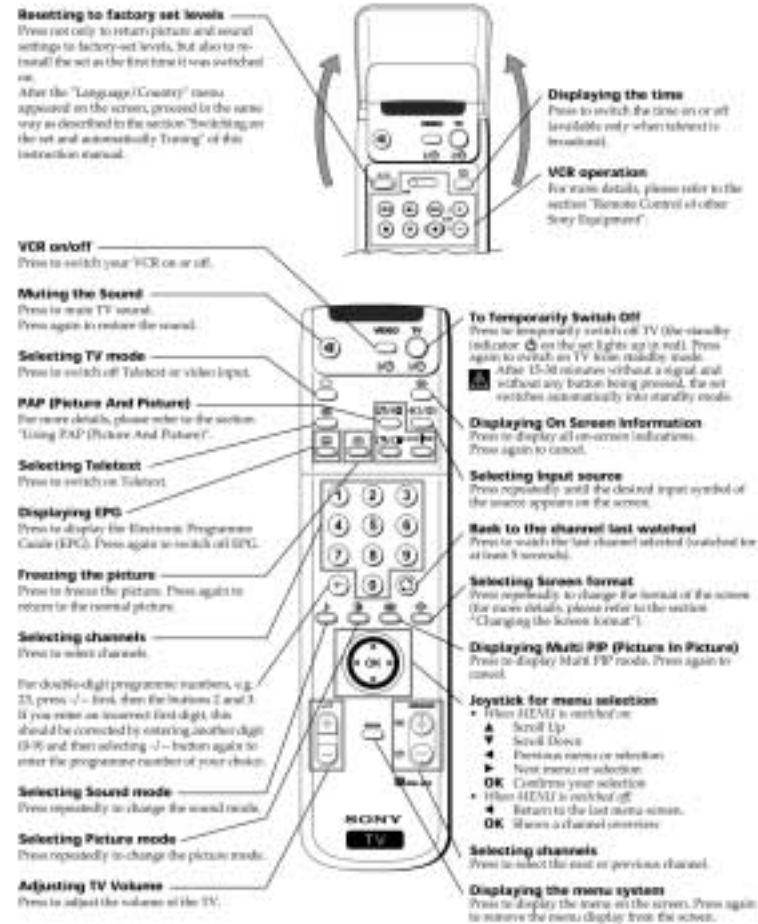


Overview of TV Buttons



Overview

Overview of Remote Control Buttons



I Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

Installation

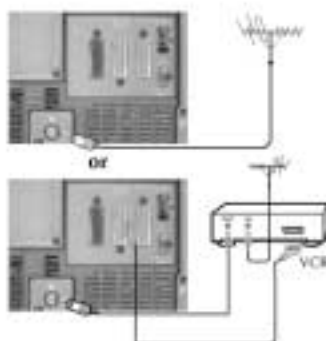
Inserting Batteries into the Remote Control

- 1** Make sure you insert the batteries using the correct polarity.
Always remember to dispose of used batteries in an environmental friendly way.



Connecting the Aerial and VCR

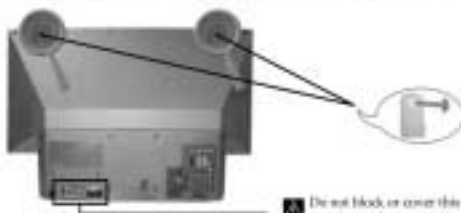
- 1** Connecting cables are not supplied.



- 1** The feet lead is optional.
If you use this optional connection it can improve picture and sound quality when using a VCR.
- A** If you do not use a SCART lead, after automatically tuning the LCD projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to tune in the set to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Stabilizing the set

- 1** After setting up, secure the set to a wall, etc., with the supplied brackets for safety purposes.
- 1** Mount the two supplied brackets with the screws to the upper rear side of the set.



- 2** Do not block or cover this ventilation opening. For ventilation, leave a space of at least 30 cm from the wall.
- 2** Pass a strong cord or a chain through each bracket mounted in 1, and then secure to a wall or a pillar, etc.

First Time Operation

Switching on the set and Automatically Tuning

- 1** The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the set, 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change the language menu, change the country, change or repeat the tuning, i.e., when you move house or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the **Set Up**.



- 1** Connect the set plug to the mains socket (220-240V AC, 50 Hz). Press the **Power** button on your set to switch on. The first time you press this button the **Language/Country** menu displays automatically on the screen.



- 2** Push the joystick on the remote control to **Up** or **Down** to select the language, then press **OK** to confirm your selection. From now on all the menus will appear in the selected language.

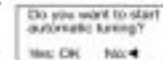


- 3** Push the joystick to **Up** or **Down** to select the country in which you will operate the set, then press **OK** to confirm your selection.



- 1** Select "Off" instead of a country if you do not want your channels (TV Broadcast) stored in a given channel sequence starting from programme position 1.

- 4** The Auto Tuning menu appears on the screen in the selected language, then press the **OK** button on the remote control to select **Yes**.



- 5** A new menu appears automatically on the screen asking you to check that the aerial is connected. Confirm that the aerial is connected and then press the **OK** button to start the automatic tuning.



- 1** The TV starts to automatically search and store all available channels (TV Broadcast) for you.
- A** If you have selected "Off" option in the Country menu and you make a new autotuning afterwards, the TV Broadcast will be stored from the selected programme number.



- 2** This procedure could take some minutes. Please, be patient and do not press any button. Otherwise the automatic tuning will not be completed.



continued...

First Time Operation



6 After all available channels are captured and stored, the Programme listing menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

• If you do not wish to change the channel order, go to step 7.

6 If you wish to change the channel order:

1 Push the joystick on the remote control to **▼** or **▲** to select the programme number with the channel (TV Broadcast) you wish to manage, then push to **►**.

2 Push the joystick to **▼** or **▲** to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.

1 The selected channel now moves to its new programme position and the other channels move accordingly.

3 Repeat steps 1) and 2) if you wish to change the order of the other channels.

7 Press the **MENU** button to exit and return to the normal TV screen.

The set is now ready for use.



First Time Operation - Menu System

Changing the Screen Format

1 This feature allows you to change the size of the TV picture.



1 Press the **Format** button on the remote control repeatedly to select one of the following formats.

- Smart:** initiation of wide screen effect for 4:3 broadcast.
- 4:3:** conventional 4:3 picture size, full picture information.
- 16:9:** compromise between 4:3 and 16:9 picture size.
- Zoom:** widescreen format for letterbox movies.
- Wide:** for 16:9 broadcast.

In **Smart**, **Zoom** and **16:9** modes parts of the top and bottom of the screen are cut off. Press **▼** or **▲** to adjust the position of the image on screen (eg to read subtitles).

2 Press the **OK** button to confirm your selection.



Introducing the Menu system

1 Your set uses an onscreen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



1 Press the **MENU** button to switch the first level menu on.



2 •To highlight the desired menu or option, push the joystick to **▲** or **▼**.

•To enter to the selected menu or option, push to **►**.

•To return to the last menu or option, push to **◀**.

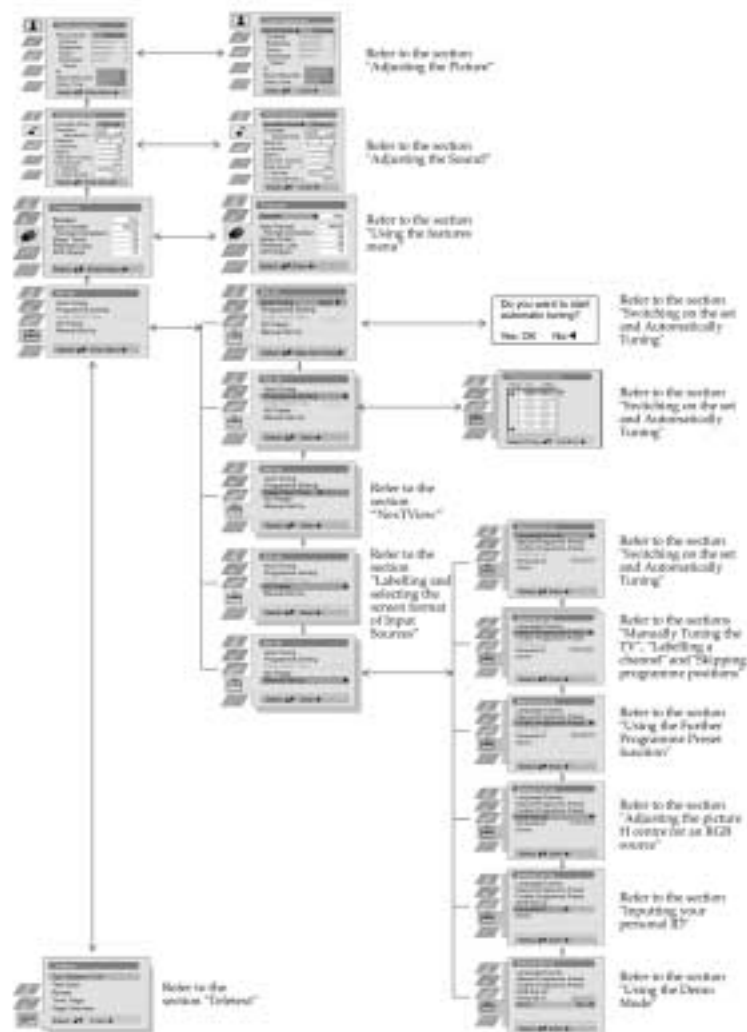
•To alter settings of your selected option, push to **▼/▲/◀/►**.

•To confirm and close your selection, press **OK**.



3 Press the **MENU** button to remove the menu from the screen.

On Screen display Menu Guide



Adjusting the Picture

1 Although the picture is adjusted at the factory, you can modify it to suit your own taste.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to **▶** to enter the Picture Adjustment menu.

3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**.
Refer to the table below to choose the item and for the effect of each control.

Picture Mode	▼ Live (for live broadcast programmes) Personal (for individual settings) Movie (for films) Game (for computer games)
Contrast	▲ Less ▲ More
Brightness*	▲ Darker ▲ Brighter
Colour*	▲ Less ▲ More
Sharpness*	▲ Softer ▲ Sharper
Blue**	▲ Reddish ▲ Greenish
Smart	▶ Resets picture to the factory preset levels.
AI (Artificial Intelligence)	▲ Off: Normal ▼ On: Automatic optimisation of contrast level according to the TV signal
Noise Reduction	▼ High: High noise reduction Mid: Medium noise reduction Low: Low noise reduction Auto: Optimum noise reduction automatically selected ▲ Off: No noise reduction
Colour Tone	▼ Warm: Gives a warm tint to the picture. Normal: Normal. ▲ Cool: Gives a cool tint to the picture.

* Can only be altered if Personal Picture Mode is selected.

** Only available for NTSC colour signal (e.g. USA video tapes).

4 Push the joystick to **▲**, **▼**, **◀** or **▶** to alter the selected item, then press the OK button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the MENU button to exit and return to the normal TV screen.

Changing the Picture Mode Quickly

1 You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the **Picture Mode** button on the remote control repeatedly to directly access and select your desired picture mode (Live, Personal, Movie, or Game).

2 Press the OK button to remove the display from the screen.



GB



Menu System

Adjusting the Sound

NOTE Although the sound is adjusted at the factory, you can modify it to suit your own taste.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** to select the **▶** symbol, then push to **▶** to enter to the Audio Adjustment menu.

3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**. Refer to the table below to choose the item and for the effect of each control.

Equalizer Mode	▼ Personal (for individual settings) Visual Jazz Rock Pop ▲ Flat (Fixed setting, cannot be adjusted)
*Equalizer Adjustment	Push to ▶ or ◀ to select the frequency band you want to alter and push to ▼ or ▲ to adjust. Finally press the OK button to store the new adjustment.
Balance	◀ Left ▶ Right
Loudness	▼ Off (normal) ▲ On for music broadcast
Spize	▼ Off (normal) ▲ On (smaller sound effect)
Auto Vol. Control	▼ Off (volume level changes according to the broadcast signal) ▲ On (volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisement))
Dual Sound	- For a stereo broadcast: ▼ Mono ▲ Stereo - For a bilingual broadcast: ▼ Mono (for mono channel if available) ▲ (for channel 1) ■ (for channel 2)
Headphones	◀ Less ▶ More
[1] Volume	
[2] Dual Sound	- For a stereo broadcast: ▼ Mono ▲ Stereo - For a bilingual broadcast: ▼ Mono (for mono channel if available) ▲ (for channel 1) ■ (for channel 2) ▲ PNP (only when PNP is switched on)

* Can only be permanently stored if Personal Equalizer Mode is selected, the other modes (Visual, Jazz, Rock or Pop) store until the next mode change.



continued...

Menu System



4 Push the joystick to **▼**, **▲**, **◀** or **▶** to alter the selected item, then press the OK button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the MENU button to exit and return to the normal TV screen.

Changing Sound Mode Quickly

NOTE You can quickly change Sound mode without entering the Sound Control menu screen.

1 Press the **▶** button on the remote control repeatedly to directly access and select your desired sound mode (Personal, Visual, Jazz, Rock, Pop or Flat).

2 Press the OK button to remove the display from the screen.



G8

Menu System

Using the Features Menu

- Using the Features menu you can:
- Adjust automatically the size of picture.
 - Select if you want to listen to the sound from the set directly or through an external amplifier.
 - Select a time period after which the set switches itself into standby mode.
 - Lock the buttons on the set. In this way, the set only works by using the remote control buttons.
 - Select the source to be output from the front connector (2+2) – RS2 (SMARTLINK). In this way, you can record from the front connector while watching another source. If your VCR supports SmartLink, this procedure is not necessary.



- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to \blacktriangledown to select the M symbol, then push to \blacktriangleright to enter the Features menu.
- Push the joystick to \blacktriangledown or \blacktriangle to select the desired menu item, then push to \blacktriangleright (see the table below for the effect of each menu item).
- Push to \blacktriangledown or \blacktriangle to select the desired setting and press the OK button to store.
- Press the MENU button to exit and return to the normal TV screen.

Features	Effect / Operation
Auto Format (only if Auto Format is set to "Format" or "Full")	<ul style="list-style-type: none"> Off: Size of picture is not automatically adjusted. Normal: Size of picture is automatically adjusted according to the broadcast information. Full: The set automatically adjusts the picture size to eliminate any dark areas on the TV picture (as shown on the screen "Changing the Screen Format").
Format Correction (only if Auto Format is set to "Format" or "Full")	<ul style="list-style-type: none"> Off: 4:3/16:9 is selected. On: Smart mode is selected automatically for 4:3/16:9 broadcast.
Speaker	<ul style="list-style-type: none"> Main: (sound from the set) External In: (sound from external amplifier)
Sleep Timer	<ul style="list-style-type: none"> Off 90 min. 20 min. 90 min. <ul style="list-style-type: none"> One minute before the set switches into standby mode, the time remaining is displayed on the screen automatically. When watching the TV, press the SLEEP button on the remote control to display the time remaining. To return to normal operation from standby mode, press the TV PQ button on the remote control.
Parental lock	<ul style="list-style-type: none"> Off: (Normal mode) On: (The set can only be switched on using the remote control, the buttons on the TV do not work)
AV2 Output	<ul style="list-style-type: none"> TV: (audio/video signal from the set) AV1: (audio/video signal from the front connector (2+1) – (4)) AV2: (audio/video signal from the front connector (2+2) – RS2 (SMARTLINK)) AV3: (audio/video signal from the front connector (2+2) – RS2) AV4: (audio/video signal from the front connector (2+2) – RS2)

If you have connected a decoder, please remember to change back the AV2 Output to "TV" for correct sound.



Menu System

Manually Tuning the TV

- Use this function to preset channels (TV Broadcast) or a video input source one by one to the programme order of your choice.



- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to \blacktriangledown to select the M symbol, then push to \blacktriangleright to enter the Set Up menu.
- Push the joystick to \blacktriangledown or \blacktriangle to select Manual Set Up, then push to \blacktriangleright .
- Push the joystick to \blacktriangledown or \blacktriangle to select Manual Programme Preset, then push to \blacktriangleright .
- Push the joystick to \blacktriangledown or \blacktriangle to select on which programme number you want to preset a channel (for VCR select programme number 01), then push twice to \blacktriangleright . The column SYS is highlighted.
- Push the joystick to \blacktriangledown or \blacktriangle to select the system for TV Broadcast and VCR channel (B/G for system european countries, L for France, I for Great Britain or D/K for system european countries or a external input source (EXT), then push to \blacktriangleright . The column CH is highlighted.
- If you know the channel number of the TV Broadcast, the VCR test signal channel or the frequency, press the number buttons to enter directly the channel number. Then press the OK button to store.
 - If you do not know the channel number, push the joystick to \blacktriangledown to select SEARCH and the set starts automatically to search for the next available TV Broadcast channel or the channel of the VCR signal. Then press the OK button to store or press \blacktriangledown to continue searching the desired channel.
 - For external input sources (EXT), push to \blacktriangledown to select the input source where you have connected your equipment (AV1, AV2, AV3 or AV4). Then press the OK button to store.
- Repeat steps 4 to 8 a), b) or c) if you wish to store more channels.
- Press the MENU button to exit and return to the normal TV screen.

The set is now ready for use.



GB

Menu System

Labelling a channel

11 Names for channels (TV broadcasts) are usually taken automatically from Teletext if available. You can however name a channel as an input video source (using up to five characters letters or numbers). Using this function, you can easily identify which channel (TV broadcast) or video source you are watching.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the **IT** symbol, then push to **►** to enter the **Set Up** menu.
- 3 Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **►**.
- 4 Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **►**.
- 5 Push the joystick to **▼** or **▲** to select the programme number with the channel you wish to name.
- 6 Push the joystick to **►** repeatedly until the first element of the **LABEL** column is highlighted.
- 7 Push the joystick to **▼** or **▲** to select a letter, number, "-" or a blank, then push to **►** to confirm this character. Select the other four characters in the same way.
- 8 After selecting all the characters, press the **OK** button.
- 9 Repeat steps 5 to 8 if you wish to label other channels.
- 10 Press the **MENU** button to exit and return to the normal TV screen.

11 When you select a named channel, the name appears for a few seconds on the screen.



Menu System

Skipping Programme positions

11 You can programme this set to skip any unwanted programme numbers when they are selected with the **PROGR +/-** buttons. To avoid this function afterwards, proceed in the same way as described below by selecting **Off** instead of **On** in step 6.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the **IT** symbol, then push to **►** to enter the **Set Up** menu.
- 3 Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **►**.
- 4 Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **►**.
- 5 Push the joystick to **▼** or **▲** to select the programme position you want to skip, then push to **►** to enter the **SKIP** column.
- 6 Push the joystick to **▼** to select **On**, then press the **OK** button to store.
- 7 Repeat steps 5 and 6 to skip other unwanted programme positions.
- 8 Press the **MENU** button to exit and return to the normal TV screen.

11 When changing channels (TV broadcasts) with the **PROGR +/-** buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.



GB

Menu System

Using the "Further Programme Preset" function

11 With this feature you can:

- a) Individually attenuate the strength of a channel signal. In case of a strong local aerial signal (striped picture).
- b) Individually adjust the volume level of each channel.
- c) Even manually the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted.
- d) Preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



- 1 Press the MENU button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the ID symbol, then push to ► to enter the Set Up menu.
- 3 Push the joystick to ▼ or ▲ to select Manual Set Up then push to ► to enter.
- 4 Push the joystick to ▼ or ▲ to select Further Programme Preset, then push to ►.
- 5 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ► repeatedly to select:
 - a) AFT (RF attenuator)
 - b) VOL (Volume Offset)
 - c) AFT (Automatic Fine Tuning) or
 - d) DECODER
 The selected item changes colour.
- 6
 - a) AFT
Push the joystick to ▼ to select On, then press the OK button. Repeat steps 5 and 6 a) to attenuate other channels.
 - b) VOL
Push the joystick to ▼ or ▲ to adjust the volume level of the channel over a range of -7 to +7, then press the OK button. Repeat steps 5 and 6 b) to adjust the volume level of the other channels.
 - c) AFT
Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the OK button. Repeat steps 5 and 6 c) if you wish to fine tune other channels.
 - d) DECODER
Push the joystick to ▼ or ▲ to select AV1 (for a decoder connected to the Scart G-1/-2) or AV2 (for a decoder connected to the Scart G-1/-2 (SMARTLINK)), then press the OK button. Repeat steps 5 and 6 d) to select the AV1 or AV2 output for other programme positions.
- 7 Press the MENU button to exit and return to the normal TV screen.

The set is now ready for use.



Menu System

Inputting Your Personal ID

- 11 You can programme this set with a personal code, using up to eleven characters (letters and numbers). Then using this button it will be possible to identify your set if it was ever stolen.

- 12 This code can only be input once!
Make sure to write it down in this instruction manual.



- 1 Press the MENU button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the ID symbol, then push to ► to enter the Set Up menu.
- 3 Push the joystick to ▼ or ▲ to select Manual Set Up then push to ►.
- 4 Push to ▼ or ▲ to select Personal ID, then push to ►.
- 5 Push the joystick to ▼ or ▲ to select a letter, number, + or a blank, then push to ► to confirm this character. Select the other ten characters in the same way.
- 6 After selecting all the characters, press the OK button. A new menu appears automatically on the screen asking you to be sure that you want to save this ID.
- 7
 - a) If you do not wish to store this ID, push the joystick to ◀ and repeat steps 4 to 6 to enter a new ID.
 - b) If you wish to store this ID, press the OK button.
- 8 Remember that this code can only be input once.
- 8 Press the MENU button to return to the normal TV screen.

When you enter the Manual Set Up menu, in the "Personal ID" option the code you entered above will be displayed. You will not be able to select and change this option.



GB

Menu System

Using the Demo Mode

1 This function provides an overview of some of the features available on this set.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** to select the **DS** symbol, then push to **▶** to enter the Set Up menu.

3 Push the joystick to **▼** or **▲** to select Manual Set Up, then push to **▶**.

4 Push to **▼** or **▲** to select Demo, then push to **▶** to enter and start the demonstration.

5 The set starts the demonstration and shows some of the available picture functions.

Note:
Press the **○** button on the remote control to stop the Demo mode and return to the normal TV screen.



Menu System

Adjusting the H Centre picture for an RGB source

1 When connecting an RGB source, such as a DVD player, to the Scan connector (D-1/-2) you may need to adjust the H Centre of the picture.



1 Press the **DS** button repeatedly on the remote control until the symbol **DS** appears on the screen.

2 Push the MENU button to display the menu on the screen.

3 Push the joystick to **▼** to select the **DS** symbol, then push to **▶** to enter the Set Up menu.

4 Push to **▼** or **▲** to select Manual Set Up then push to **▶** to enter.

5 Push the joystick to **▼** or **▲** to select RGB Set Up then push to **▶**.

6 Push the joystick to **▶** to enter H Centre, then push to **▼** or **▲** to adjust the centre of the picture over a range of -10 to +10. Press the **OK** button to store.

7 Press the MENU button to exit and return to the normal TV screen.



GB

Menu System

Labelling and Selecting the screen format of Input Sources

11 This function enables you to select the size of the picture coming from the input source as well as designate a name to the optional equipment you have connected to the sockets of this set. This name can contain up to 5 characters (letters or numbers).



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
 - 2 Push the joystick to **▼** to select the **SET UP** symbol, then push to **►** to enter the Set Up menu.
 - 3 Push the joystick to **▼** or **▲** to select **AV Preset**, then push to **►**.
 - 4 Push the joystick to **▼** or **▲** to select the input source. Then push to **►**.
 - 5 Push the joystick to **▼** or **▲** to select:
 - Off** (Size of picture is not automatically adjusted).
 - Normal** (Size of picture is automatically adjusted according to the broadcaster information).
 - Full** (The set automatically adjusts the picture size to eliminate any dark areas on the TV picture (as shown on the section "Changing the Screen Format").
 Next push to **►**.
 - 6 With the first element of the **LABEL** column highlighted, push the joystick to **▼** or **▲** to select a letter, number, "-" or blank; then push to **►** to confirm this character. Select the other four characters in the same way.
 - 7 After selecting all the characters, press the **OK** button.
 - 8 Repeat steps 4 to 7 if you wish to select the picture size or label other input sources.
 - 9 Press the **MENU** button to exit and return to the normal TV screen.
- 12** Whenever the equipment with the labelled input is selected for use, the name appears for a few seconds on the screen.



Menu System

Using Multi PIP (Picture In Picture)

13 Multi PIP (Picture in Picture) mode displays a succession of 12 still pictures and a 1st that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP.



- 1 Press the **PIP** button on the remote control to select the PIP mode. Now 13 programme positions appear on the screen, with the current channel in the centre.
- 2 Push the joystick to **▼**, **▲**, **◀** or **▶** to move within the 13 displayed channels.
- 3 Press the **OK** button to select the desired channel. The selected channel moves to the centre.
- 4 Press **PIP** to return to the normal TV mode.

GB

Using PAP (Picture And Picture)

14 PAP divides the screen into two for watching two channels simultaneously. One of the pictures can be selected to come from a video source. The sound of the left screen comes through the set loudspeakers, the sound of the right screen is selectable via headphones.



Switching PAP on and off

Press the button **PIP** on the remote control to display the two screens in format 4:3. Press **PIP** again to switch PAP off.

Selecting PAP source

- 1 To change the source of the left screen:
With PAP switched on, press the number buttons (to select a TV channel) or press **PIP** (to select a video source).
- 2 To change the source of the right screen:
With PAP switched on, press the button **PIP** on the remote control. When the symbol **1** appears at the bottom of the right screen, press the number buttons (to select a TV channel) or press **PIP** (to select a video source).

Swapping screens

With PAP switched on, press the **PIP** button on the remote control to swap the two screens.

Zooming the screens

With PAP switched on, push the joystick repeatedly to **◀** or **▶** to change the size of the two screens.

Selecting the sound of the right screen

You can select the sound of the right screen via headphones. With PAP switched on, refer to the "Adjusting the Sound" section of this instruction manual and set the option "Dual Sound" to "PAP".

Teletext

Teletext

Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

Please use a TV channel with a strong signal, otherwise there may be Teletext errors.



Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view.
- 2 Press the **PICTURE** button once for Picture and Teletext (P&T). The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.
 - i P&T mode. Press **PICTURE** again to change the channel of the TV screen. Push the joystick to **▲** or **▼** to change the size of the TV screen, then press **PICTURE** again to resume normal teletext reception.
- 3 Press **PICTURE** again to get Teletext only.
- 4 Press **PICTURE** again to get P&T mode.
- 5 Press **PICTURE** a fourth time or press **PICTURE** to switch off Teletext.

Selecting a Teletext page

Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then re-enter the correct page number.

Using Other Teletext Functions

Selecting the next or preceding page

Press the **PREV** (F100G-H) or **NEXT** (F100G-I) buttons on the remote control to select the previous or next page.

Selecting a sub page

A teletext page may consist of several sub pages. In this case, after a few seconds, an information line is displayed showing the number of subpages.

Select the sub page by pressing **▲** or **▼**.

To freeze a Teletext page

Press the **FREEZE** button to freeze the page. Press again to cancel the freeze.

Revealing the index page

Press the **INDEX** button to reveal the index page (usually page 100).

Fastext

Only available if the TV station broadcasts Fastext signals.

When the colour coded menu appears at the bottom of a teletext page, press a coloured button on the remote control (red, green, yellow or blue) to access the corresponding page.

Using the feature "Page Catching"

- 1 Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
- 2 Press the **OK** button.
- 3 Push the joystick to **▲** or **▼** to select the desired page number then press the **OK** button. The requested page is displayed after some seconds.

continued...

Teletext



Using the Teletext menu

- 1 With Teletext switched on, press the **MENU** button on the remote control to display the teletext menu on the TV screen.
- 2 Push the joystick to **▲** or **▼** to select your chosen item, then push to **▶** to display the relevant sub menu.
- 3 To remove the teletext menu from the screen, press the **MENU** button.



Top / Bottom / Full

The Top / Bottom / Full sub menu allows you to enlarge different sections of the Teletext page. Push the joystick **▲** to enlarge the upper half of the screen, push to **▼** to enlarge the lower half. Press the **OK** button to restore the page to normal size.

Top ▲ Bottom ▼ Full OK

Text Clear

After having selected this function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol **TC** changes colour. To view the page, press **OK**.

Reveal

Some teletext pages contain hidden information (eg for a quiz), which you can reveal. The hidden information appears on screen.

Time Page

(depending on availability of teletext service)

You can call up a time-coded page such as an alarm page at a time specified by you. After you have displayed the Time Page sub menu:



- 1 Press the numbered buttons on the remote control to enter the three digits of the desired page.
- 2 Press the numbered buttons again to enter the four digits of the desired time.
- 3 Press the **OK** button to store the desired time. The time is displayed in the top left corner of the screen. At the requested time the page is displayed.

Page Overview

(depending on availability of teletext service)

In the Page Overview menu the block and group pages of TDP-Text are sorted into two columns, so that the customer can easily select this page. For each block page in the first column, the corresponding group pages are shown in the second column. Push the joystick **▲** or **▼** to select the desired block page, then push to **▶** to enter the group pages column. Push to **▲** or **▼** to select the desired group page. Finally, press the **OK** button to display the page.

GB

NexTVView

NexTVView *

* Depending on availability of service

11 NexTVView is an on-screen electronic programme guide (EPG) providing you with programme information for different broadcasters.



Selecting your NexTVView provider

- 1 The set automatically selects the best NexTVView provider for you. This provider is available about 30 minutes after the channel tuning. You can however change this selection of provider if you wish.
- 2 Press the MENU button on the remote control to display the menu on the screen.
- 3 Push the joystick ▲ or ▼ to select the symbol, then push to ► to enter the Set Up menu.
- 4 Push to ▲ or ▼ to highlight Select NexTVView then push to ►. A list is displayed containing all available NexTVView providers.
- 5 Push to ▲ or ▼ to select the desired provider then press the OK button to store.
- 6 Press the MENU button to remove the menu from the screen.

Displaying NexTVView

- 1 Press the button repeatedly on the remote control to switch NexTVView on and off.
* In some cases, you may also need to push the joystick to ◀ to display the Sony electronic programme guide.
- 2 Push the joystick to ▲, ▼, ◀ or ► buttons to move the cursor around the screen.
- 3 Press the OK button to confirm a selection.
a) If you press the OK button in the date, time or (on channel) selection, you change the programme list according to the selection.
b) If you press the OK button in the programme list, you directly display the channel if the broadcast is currently running, or, you display the "Long Info" menu if the broadcast is running at some future time.

Using the "Individual Setting" menu

- 1 You can make a personal list of the types of programmes you wish to view on the programme guide.
- 1 Push the joystick ▲ or ▼ to select the icon then push to ► to display the "Individual Setting" menu.
- 2 Push the joystick ▲ or ▼ to select your chosen item on the screen then press the OK button to confirm your choice.
- 3 Repeat step 2 for all the items you wish to have in your list.
- 4 When you have finished the list, push to ► to select the icon.
- 5 Press the OK button to return to the previous menu.
- 6 Push the joystick ▲ or ▼ to select the icon then press the OK button again to activate your "Individual Setting" filter.



continued...

NexTVView

Using the Long Info menu

11 With this menu screen, you can set timers or record selected programmes.

- 1 Push ▲ or ▼ to select a future programme in the programme list screen.
- 2 Press the OK button to display the Long Info menu on the TV screen.

To set the timer

Push the joystick ▲ or ▼ to highlight the icon then press the OK button repeatedly to select "set the timer" or "cancel the timer". If you choose to set the timer, the programme is marked with a clock symbol and a message appears on the screen shortly before the programme is due to start asking whether you wish to still view this programme.

To view the timer table

Push the joystick ▲ or ▼ to highlight the icon then press the OK button repeatedly to switch on/off the timer table. This table shows the programmes on which you have already set a timer. (You can set a timer on up to 5 programmes).

To record programmes

(only with SmartLink VCRs)

- 1 Connect your SmartLink VCR.
- 2 Push the joystick to ◀ or ► to select then press the OK button to download the information to your VCR.
- 3 To set up the VCR.

VPS/PDC

Push the joystick ▲ or ▼ to select VPS/PDC then press the OK button repeatedly to select On or Off. With this setting on you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS/PDC signal.

Speed

Push the joystick to ▼ to select Speed then press the OK button repeatedly to select between SP for standardplay or LP for longplay. With longplay you can record twice as much on a videotape. The picture quality however may suffer.

VCR Setup

Push the joystick to ▼ to select VCR Setup then press the OK button repeatedly to select which VCR you wish to programme, namely VCR1 or VCR2.

- 4 Finally, push the joystick to ► to select the icon then press the OK button to remove the menu from the TV screen.



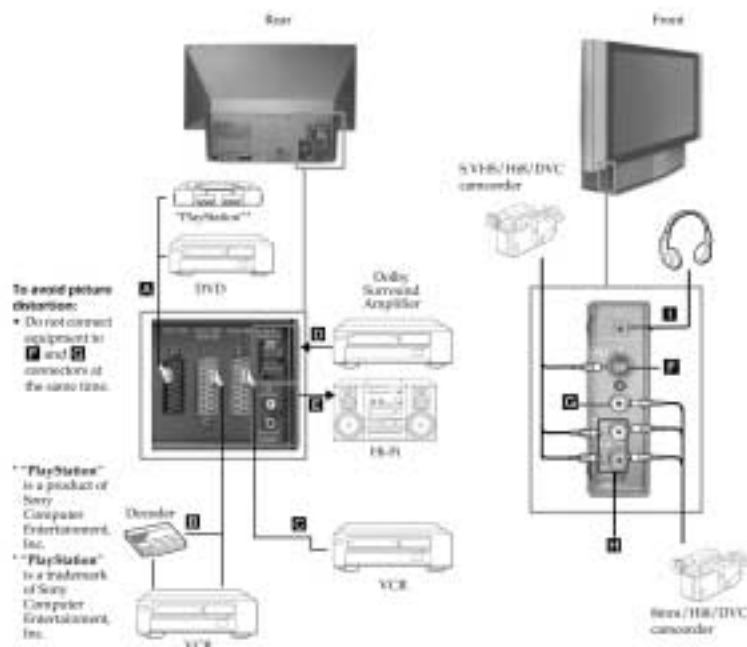
GB



Optional Connections

Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to this set.



Acceptable input signal	Available output signal
1 Audio/video and RGB signal	Video/audio from TV tuner
2 Audio/video and S video signal	Video/audio from selected source
3 Audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
4 Centre speaker input Set "Speaker" on the Features menu to "Centre In"	No output
5 No input	Audio signal
6 S Video signal	No output
7 Video signal	No output
8 Audio signal	No output
9 No input	Audio signal to headphones

Optional Connections

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the 1 or 2 socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the channel of the VCR and signal to TV programme number "1". Also refer to your VCR instruction manual to get the VCR test signal. If your video supports SmartLink, please refer to the "SmartLink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of the set on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the 1 socket on the rear of the set if you wish to amplify the audio output from the TV.

The output level from 1 sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

2 To listen to the Dolby Prologic system sound on the set speakers:

Plug in your Dolby Prologic system decoder amplifier to the 2 socket on the rear of the set if you wish to listen to the audio output from your equipment on the TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the 2 socket to use the set as a centre speaker. Refer to the "Using the Features menu" section of this instruction manual and set the option "Speaker" to "Centre In".

Remember that the maximum input level of this input is 10W. Be careful never to over this limit.

For mono equipment

Connect the phone plug to the L/C/S/T socket on the front of the TV and select the 4 input signal using the instructions on this page below.

Select and View the Input Signal

In order to get the input signal of a connected equipment onto the TV screen, you need to select the symbol of the connector to which you have connected the device. e.g. Your VCR is connected to the connector with the symbol 3-L-1. Press the button 4 on the remote control repeatedly until you see the symbol 4 on the screen.



- 1 Connect your equipment to the designated socket, as it is indicated on the previous page.
- 2 Press the 4 button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol Input signals

- 1 Audio/video input signal through the Scart connector 1 or * RGB through Scart connector 1
- 2 Audio/video input signal through the Scart connector 2 or * S Video through Scart connector 2
- 3 Audio/video input signal through the Scart connector 3 or * S Video through Scart connector 3
- 4 * S Video input signal through the 4-pin DIN connector 1 or * video input signal through phone jack 1 and audio input signal through phone jack 1

* (Automatic detection of the signal according to the connected equipment)

- 3 Switch on the connected equipment.
- 4 To return to the normal TV picture, press the 1 button on the remote control.

Optional Connections

Smartlink

18 Smartlink is a direct link between the set and a VCR.

For Smartlink you need:

- A VCR which supports Smartlink, NewView Link, Easy Link or Megalogic.

19 Megalogic is a trademark of Grundig Corporation.
EasyLink is a trademark of Philips Corporation.

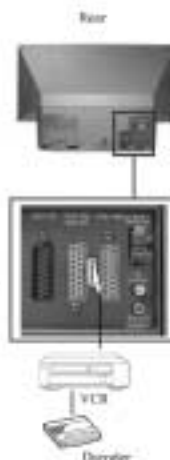
- A fully-wired 21 pin SCART cable to connect your VCR to the Scart connector (2+2/-4B) (SMARTLINK) on the rear of the set.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the set to the VCR.
- Direct recording: While watching TV you need to press just one button on the VCR to record this programme.
- Automatic switching on: With the set in standby mode, pressing the "Play" button on your VCR automatically switches the TV on.

20 If you have connected a decoder to a VCR which supports Smartlink features, select the menu Further Programme Preset in the (B) (Manual Set Up) menu and select DECODER AV2 to each coded channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

21 For more information on Smartlink, please refer to the instruction Manual of your VCR.



Remote Control of other Sony Equipment

1 Using the buttons underneath the cover of the remote control you can control other Sony equipment.

1 Open the cover of the Remote Control.

2 Set the selector VTR 1234 DVD according to the equipment you want to control.

- VTR 1 Beta VCR
- VTR 2 Hi-Fi VCR
- VTR 3 VHS VCR
- VTR 4 Digital Video (DCC-VX 1800/800 E, VHS-1800)
- DVD Digital Video Disk

3 Use the buttons underneath the cover on the remote control to operate the equipment.

22 If your equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on this set Remote Control.

- If the equipment does not have a certain function, the corresponding button on the remote control will not work.

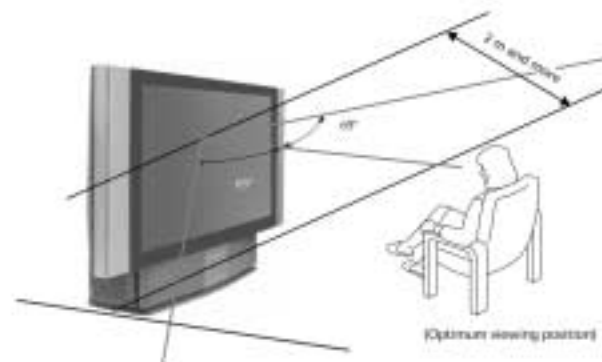


Additional Information

Optimum Viewing Area

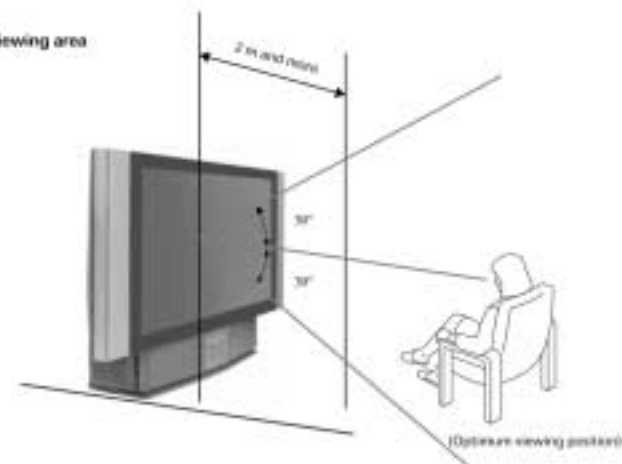
23 For the best picture quality, try to position the set so that you can view the screen from within the area shown below.

Horizontal viewing area



GB

Vertical viewing area



Additional Information

Replacing the Lamp

1 When the lamp becomes dark or the picture color is not normal or the lamp indicator (L) on the set flashes, replace with a new lamp.

- Use the lamp XL2000 for replacement. If you use another lamp, it may cause damage to the set.
- Do not remove the lamp except when replacing it.
- Before replacing the lamp, turn off the power and disconnect the power cord.
- Replace the lamp after it becomes cool. The front glass of the lamp remains 300 °C (212 °F) and more even 30 minutes after the power is turned off.
- Do not place the removed lamp in proximity to children or flammable material.
- Do not get the removed lamp wet, or insert objects inside the lamp. It may cause the lamp to explode.
- Do not place near metal or easily flammable objects, as this may cause fire. Also, do not put your hand inside the lamp compartment, as you may be burned.
- Attach the new lamp firmly. If it is not firmly attached, the picture may become dark.

1 Turn off the power and disconnect the power cord.

- If you start changing the lamp without disconnecting the power cord, the standby indicator (S) on the set flashes. To continue changing the lamp, disconnect the power cord.
- Replace the lamp 30 minutes or more after the power is turned off.

Prepare the new lamp.

2 Remove the front panel.



Remove the front panel without moving the set.



Grasping the right side of the front panel with your fingers, pull it forward. Be careful not to catch your fingers.

3 Loosen the screw with the object such as a coin and remove the lamp cover.



4 Loosen two screws and pull out the lamp.

Loosen two screws with the supplied wrench.



5 The lamp is still too hot just after the power is turned off. Be careful that you don't touch the front glass or surrounding area of the lamp or the glass of the lamp compartment.



Pull out the lamp by the handles.

5 Attach the new lamp.

Replace the new lamp securely in the lamp receptacle and tighten the screws tightly.

6 Attach the lamp cover.

Tighten the screw tightly with the object such as a coin.

7 Attach the front panel.

Attach the front panel as it was.

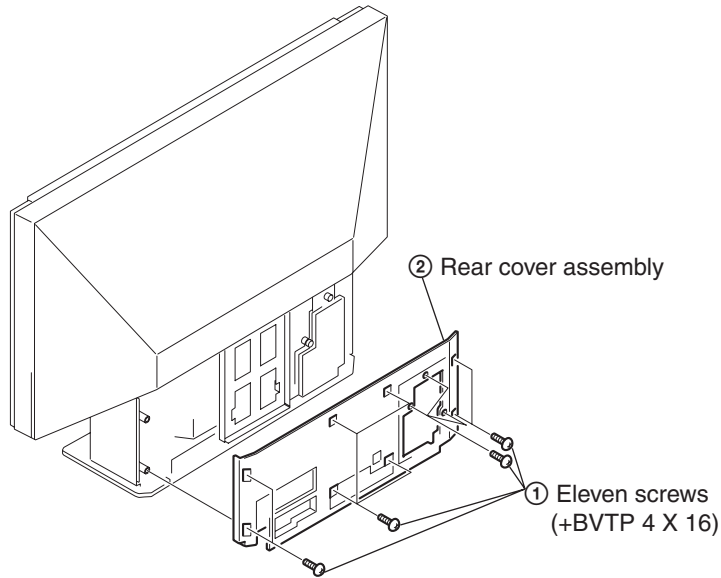
Notes

- Do not touch or shake the front glass of the new lamp or the glass of the lamp compartment. If the glass becomes dirty, the picture quality may deteriorate or the lamp life may shorten.
- Attach the lamp cover firmly. If it is not firmly attached, the power will not turn on.
- When the lamp turns out, a noise is audible. This does not represent a damage.
- Consult your nearest Sony service center to obtain a new lamp.
- Always remember to dispose of used lamps in an environmental friendly way.

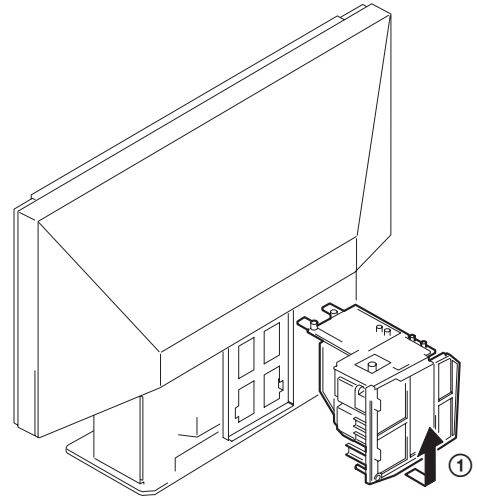
SECTION 2 DISASSEMBLY

KF-50SX100/50SX100K/50SX100U
RM-903 RM-903 RM-903

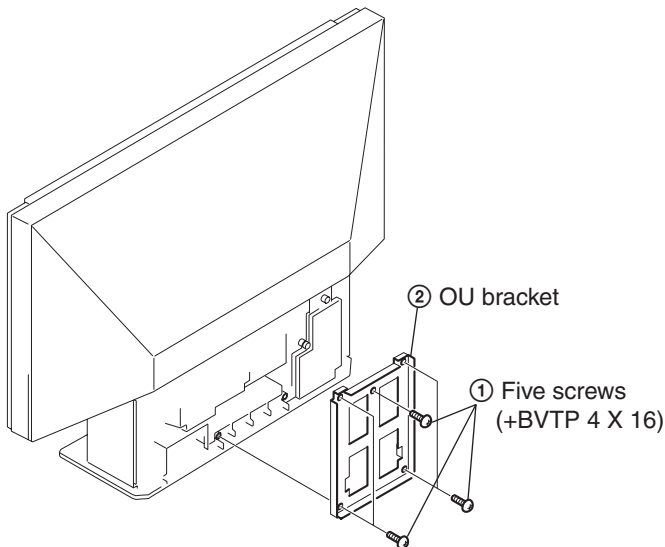
2-1. REAR COVER ASSEMBLY



2-2. SERVICE POSITION

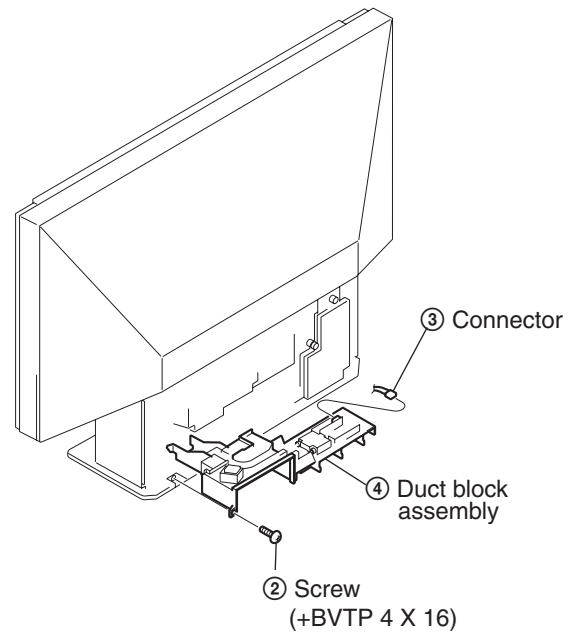


2-3. OU BRACKET REMOVAL

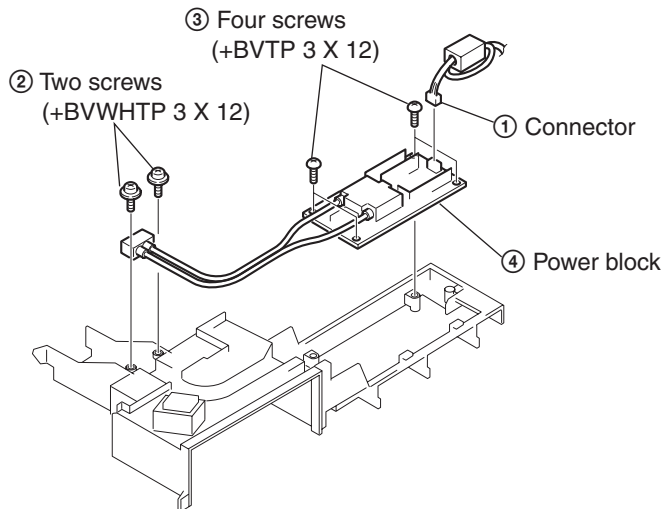


2-4. DUCT BLOCK ASSEMBLY

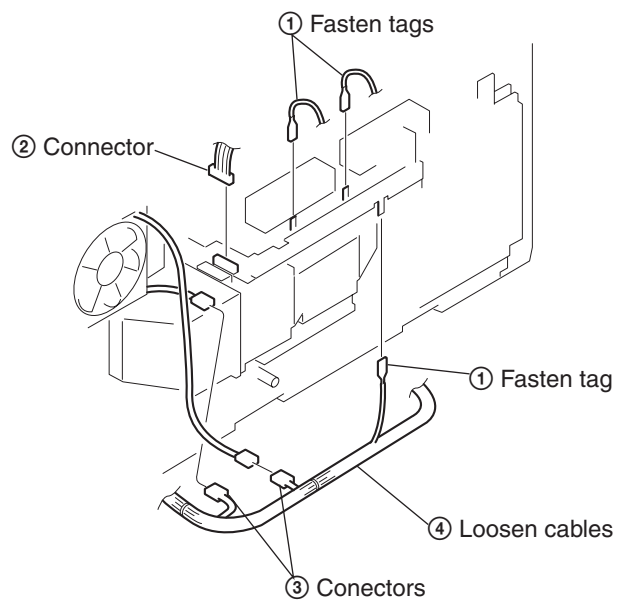
① Remove the lamp



2-5. POWER BLOCK

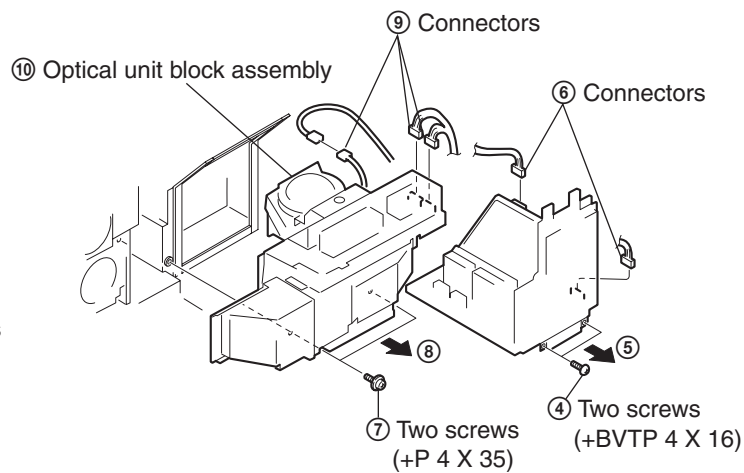


2-6. OPTICAL UNIT BLOCK ASSEMBLY

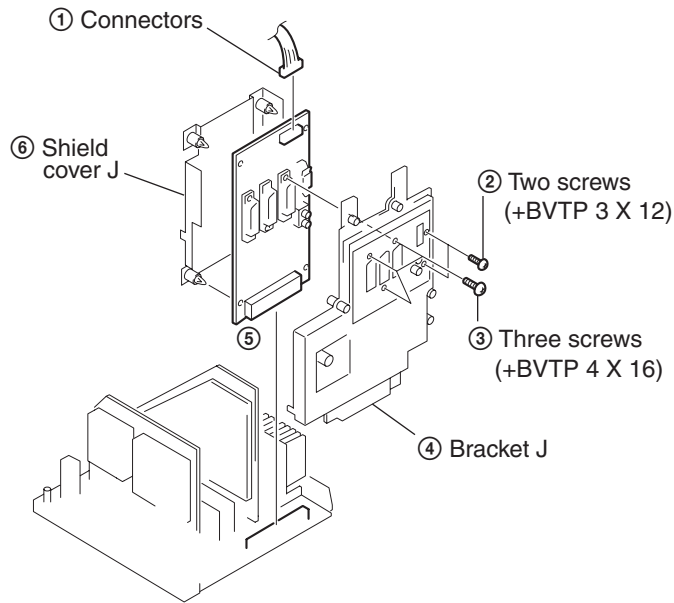


Note: Be careful about the no dust or dirt are on the surface contacts the optical unit block assembly.

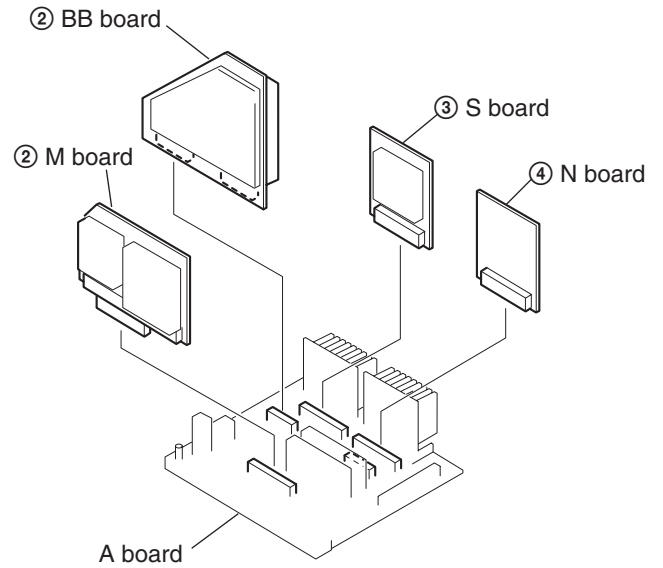
- Clean the periphery of the set.
- Clean the periphery of the optical unit block assembly in the set (the inside of the control panel, the surface contacts between the optical unit block assembly and the bottom cabinet and periphery).



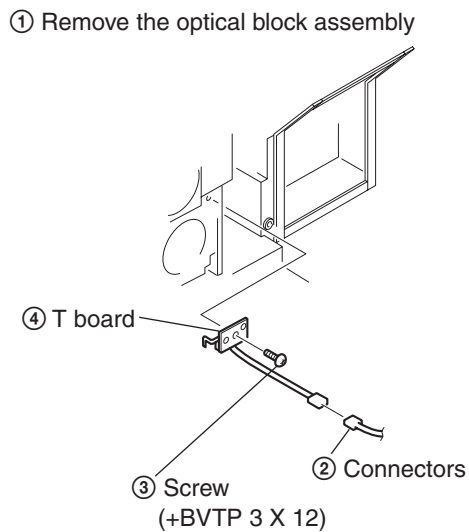
2-7. J BOARD REMOVAL



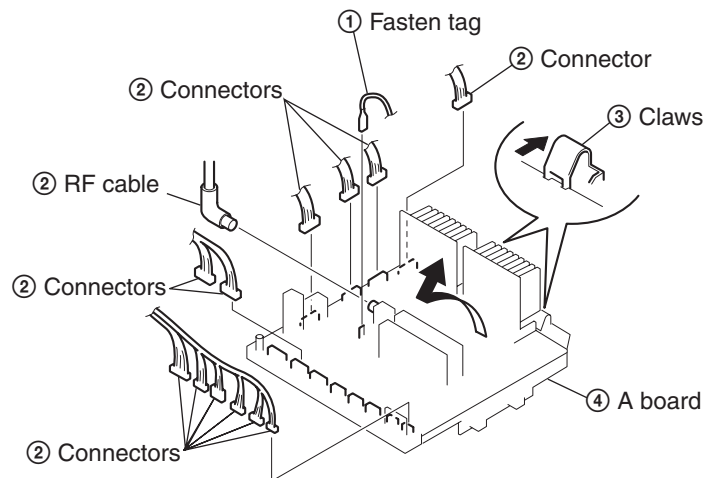
2-8. M, BD, S, N BOARDS REMOVAL



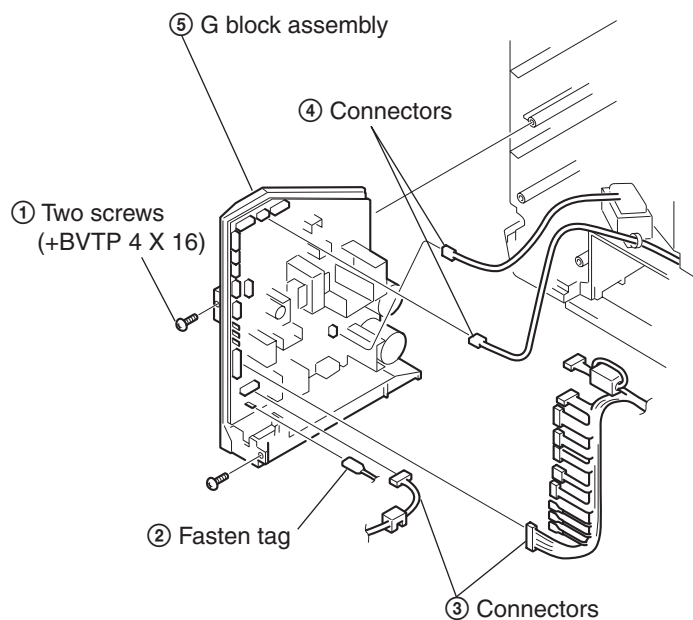
2-9. T BOARD



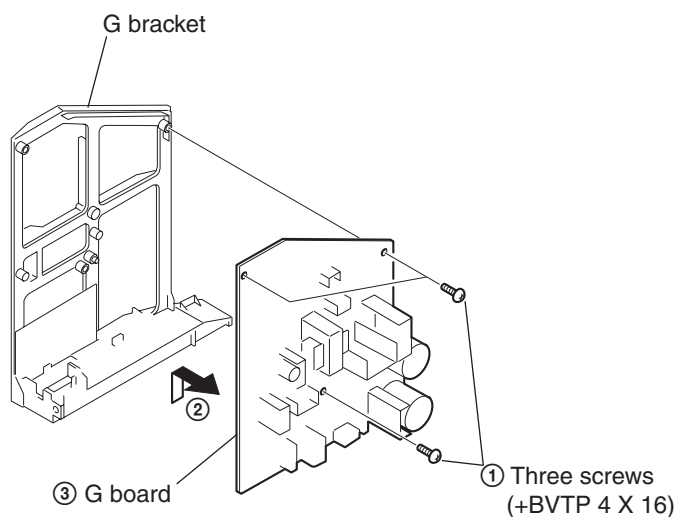
2-10. A BOARD REMOVAL



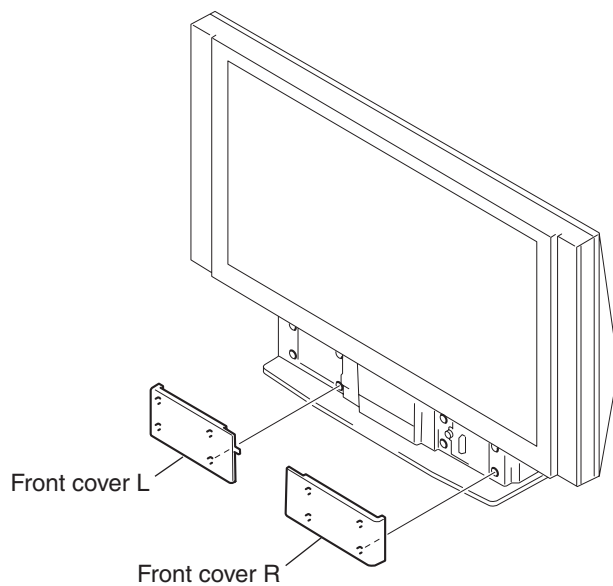
2-11. G BLOCK ASSEMBLY REMOVAL



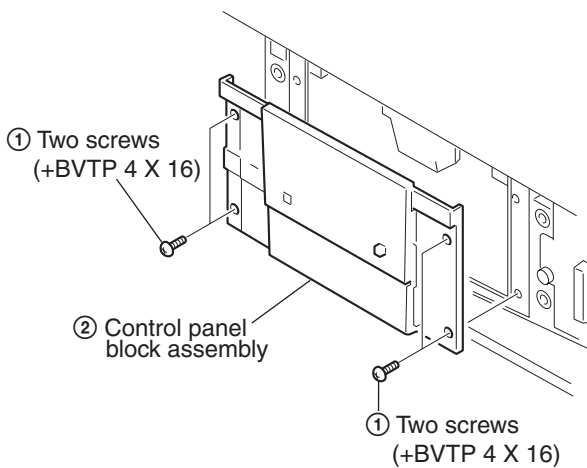
2-12. G BOARD REMOVAL



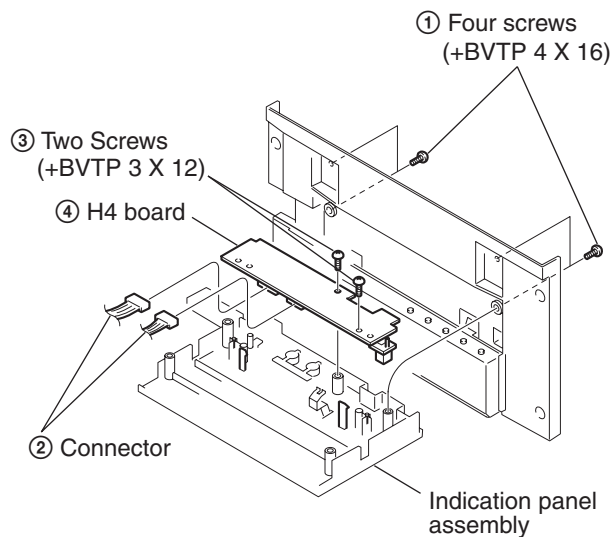
2-13. FRONT COVERS REMOVAL



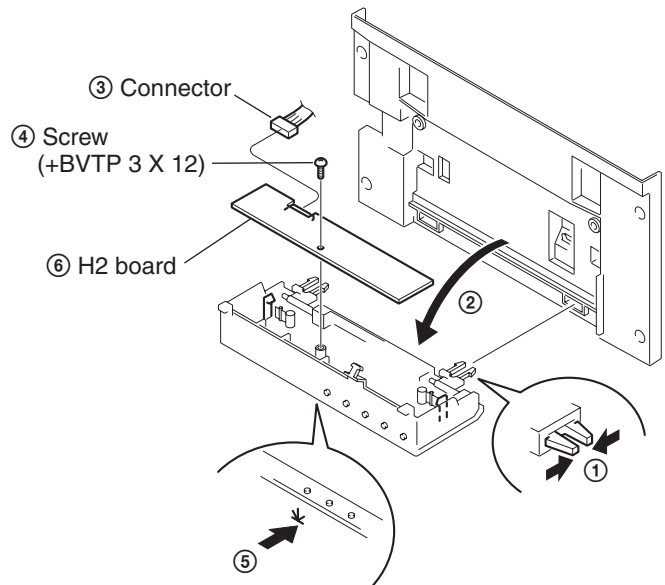
2-14. CONTROL PANEL BLOCK ASSEMBLY REMOVAL



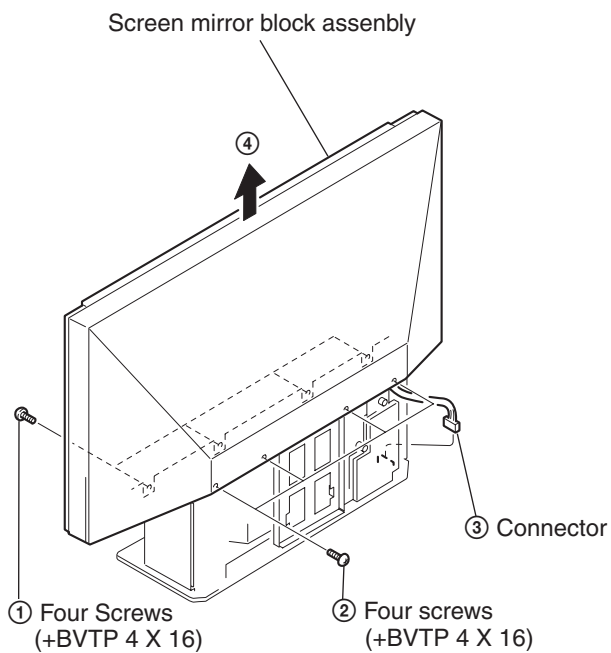
2-15. H4 BOARD REMOVAL



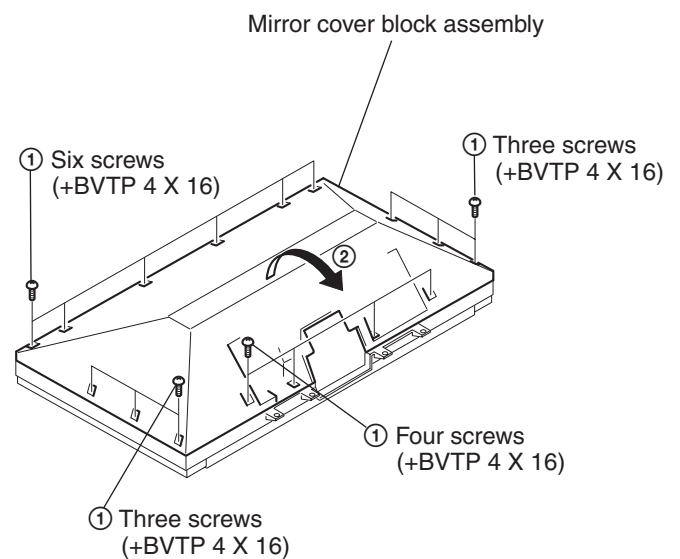
2-16. H2 BOARD REMOVAL



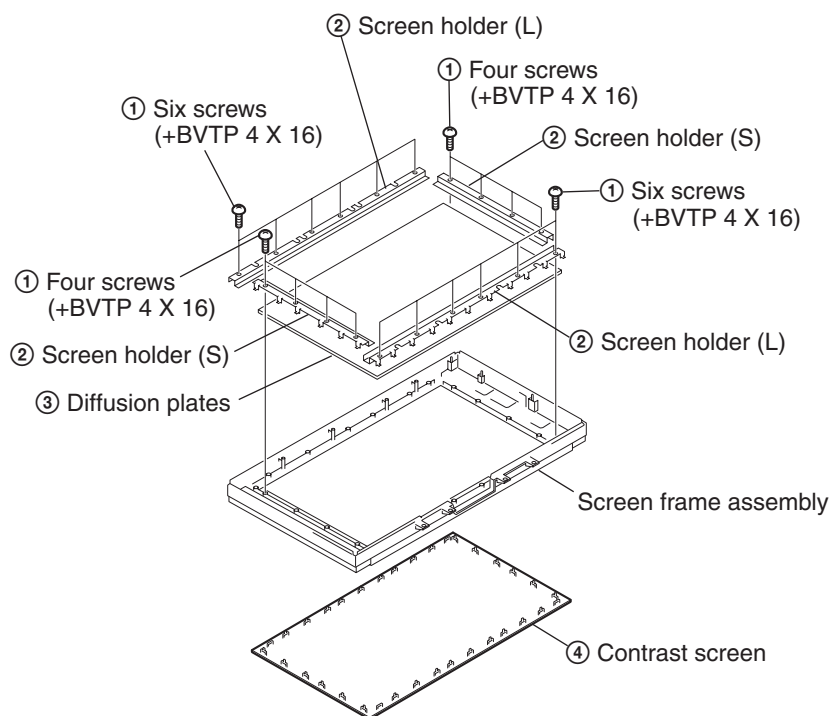
2-17. SCREEN, MIRROR BLOCK ASSEMBLY



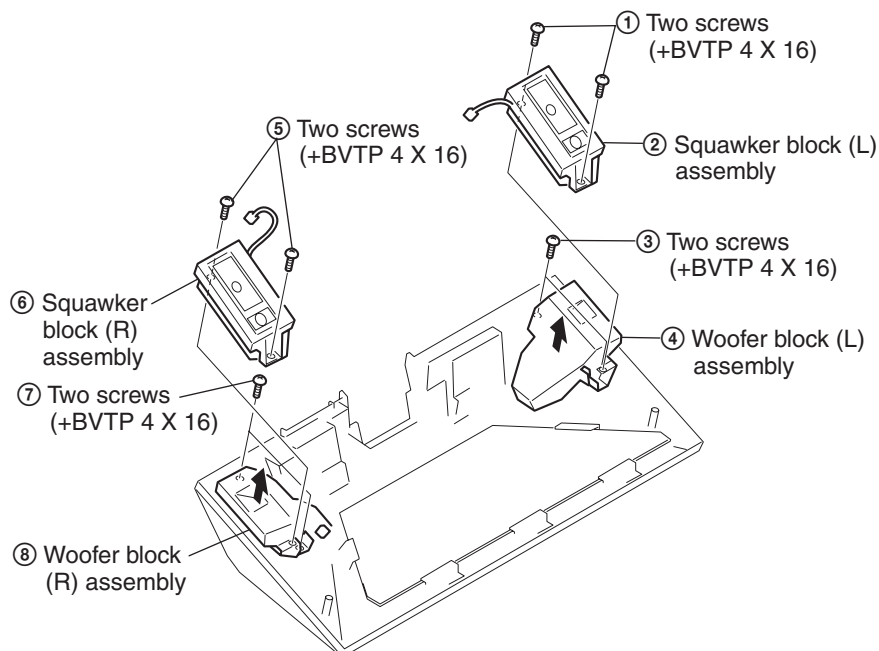
2-18. MIRROR COVER BLOCK ASSEMBLY REMOVAL



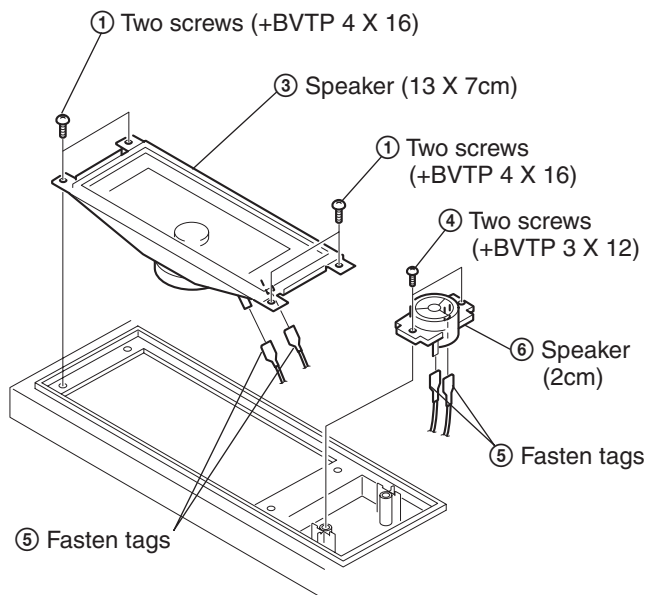
2-19. CONTRAST SCREEN, DIFFUSION PLATES REMOVAL



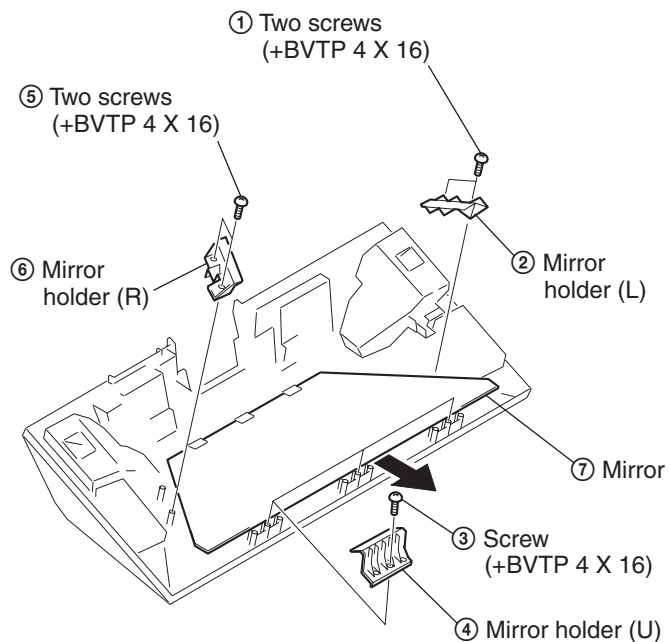
2-20. SQUAWKER BLOCK ASSEMBLIES, WOOFER BLOCK ASSEMBLY REMOVAL



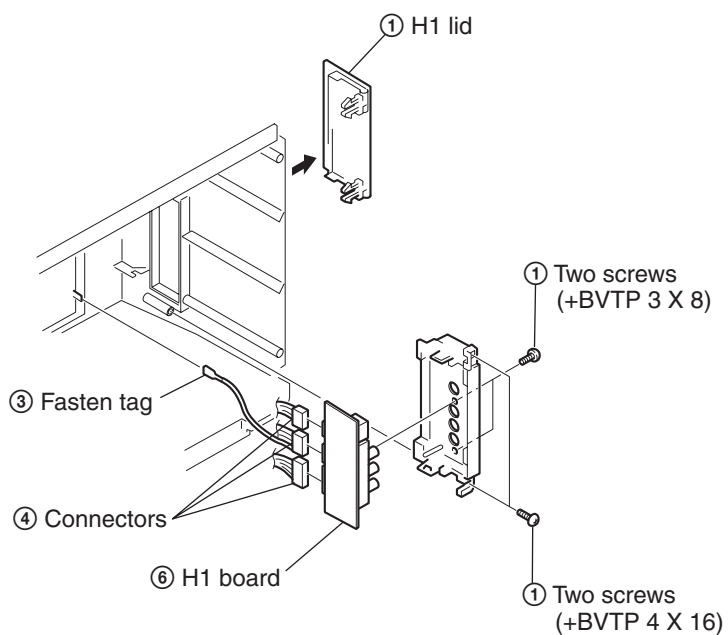
2-21. SPEAKERS REMOVAL



2-22. MIRROR REMOVAL

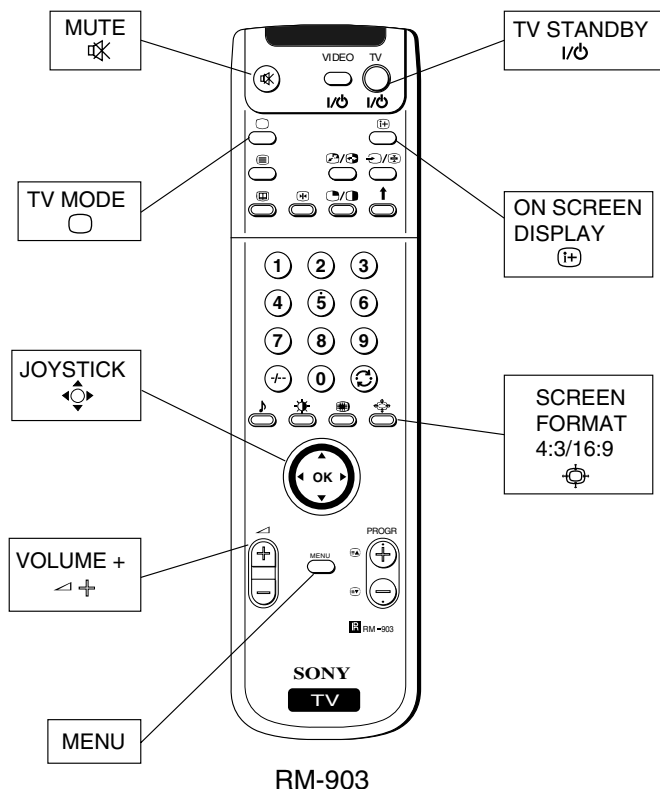


2-23. H1 BOARD REMOVAL



3-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can performed with the supplied remote commander RM-903.



1. Selection of Mode Between PAL and NTSC

PAL mode : Enter PAL signal with color burst.

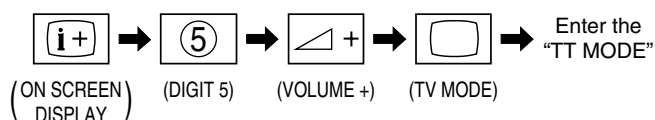
NTSC mode: Enter NTSC signal with color burst. (VIDEO input only)

2. Selection of Screen Format

- 1) Press “ (BLUE)” button on the commander.
- 2) Press or key on the joystick to select screen format and press “ (OK)” button. At this time, normal screen comes back. (In the TT mode, the menu is switched to the Service menu.)

3-1-1. How to Enter TT Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on commander as follows, and the TT mode will be selected.

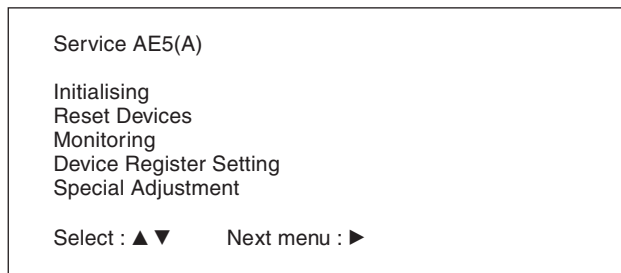


“TT - -” will appear in the top right corner of the screen.
Other status information will also be displayed.

3. Press “” + “” on the commander. If “ (TV MODE)” button is pressed, the set exits from the TT mode and returns to normal TV mode.

3-1-2. How to Enter Service Menu

1. Select TT mode.
2. Press “MENU” button on the commander once, and normal menu screen will appear, or press it once more, and the following service menu screen will appear.

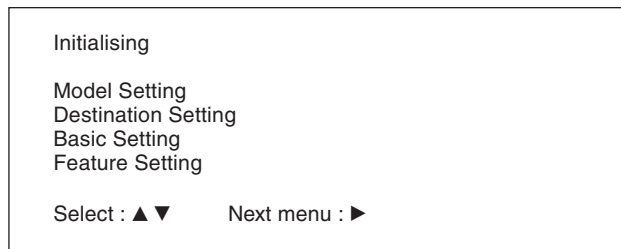


3. Following the screen, press or key on the joystick to select the desired item, and press key to enter the selected item.
4. Press or key on the joystick to change data of each item, and press “ (OK)” button to write changed data. (Except Projector Engine mode)
5. To return from each item, press key on the joystick. Or, to return to the TT mode, press the “MENU” button. (Except Projector Engine mode)

3-1-3. Screen Display for Service Menu

If each item of service menu is selected, the following screen is displayed.

• Initialising



• Initialising ➔ Model Setting

Model Setting

- 1 KV-29FX60
- 2 KV-29FC60
- 3 KV-29FS60
- 4 KV-28FX60
- 5 KV-32FX60
- 6 KV-32FS60
- 7 KV-28FC60
- 8 KV-32FC60
- 9 KV-28FC60Z
- 10 KV-32FC60Z
- 11 KV-28FS70
- 12 KV-32FS70
- 13 KV-36FS70
- 14 KP-48PS1
- 15 KP-53PS1
- 16 KP-61PS1
- 17 KP-51PS1
- 18 KF-42SX100
- 19 KF-50SX100

BLACK = No conformity
GREEN = Compatible Model
RED = Conformity for all data

Select : ▲▼ Last menu : ◀ Set Model : ▶

• Initialising ➔ Basic Setting

Basic Setting

No	Descr.	Min	Max	Data
1	Sys. B/G	OFF	ON	ON
2	Sys. D/K	OFF	ON	ON
3	Sys. L	OFF	ON	ON
4	Sys. I (UK)	OFF	ON	ON
5	Sys. I (IRL)	OFF	ON	OFF
6	TXT Nat. Option	1	4	3
7	Simple PAT	OFF	ON	ON
8	16 : 9 CRT	OFF	ON	ON
9	Sub-Woofer	OFF	ON	OFF
10	Auto Stand-By	OFF	ON	ON
11	Comb-Filter	OFF	ON	ON
12	Auto YC det	OFF	ON	ON
13	Auto Comb det	OFF	ON	ON
14	AV2 Available	OFF	ON	ON
15	AV3 Available	OFF	ON	ON
16	AV4 Available	OFF	ON	ON
17	AV3 Front & Rear	OFF	ON	OFF
18	SECAM Tape	OFF	ON	ON
19	AV1 Sound Mute	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Initialising ➔ Destination Setting

Destination Setting

- Multi
A
B
D
E
K
R
U

BLACK = No conformity
GREEN = Compatible Model
RED = Conformity for all data

Select : ▲▼ Last menu : ◀ Set Dest. : ▶

• Initialising ➔ Feature Setting

Feature Setting

No	Descr.	Min	Max	Data
1	PAP	OFF	ON	ON
2	PAT	OFF	ON	ON
3	INDEX	OFF	ON	ON
4	EPG	OFF	ON	ON
5	Full EPG	OFF	ON	ON
6	Pict Boost Bypass	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Reset Devices

Reset Devices

- Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Panorama Chip
Auto Wide
Sound
Picture Booster
MCP
Analog NR

Select : ▲▼ Last menu : ◀ Reset Dev. : ▶

• **Monitoring**

Monitoring

Device Status Monitor
Error Monitor
LCD-Engine error menu
Production Monitor
NVM Monitor
Format Monitor
CNI Monitor

Select : ▲ ▼ Next menu : ►

• **Device Register Setting**

Device Register Setting

Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Panorama Chip
Auto Wide
Sound
Projector Engine
Picture Booster
MCP
Analog NR

Select : ▲ ▼ Next menu : ►

• **Device Register Setting ➔ Colour Decoder 1**

Colour Decoder 1

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	8
9	Cb OFF. 1	7	0	15	8
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	1	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	2
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲ ▼ Last menu : ◀ Enter Item : ►

• **Device Register Setting ➔ Colour Decoder 2**

Colour Decoder 2

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	6
9	Cb OFF. 1	7	0	15	6
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	1	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	2
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲ ▼ Last menu : ◀ Enter Item : ►

• **Device Register Setting ➔ Audio/Video Switch**

Audio/Video Switch

No	Descr.	Def.	Min	Max	Data
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• **Device Register Setting ➔ MID-X**

MID-X

No	Descr.	Def.	Min	Max	Data
1	M H POS	-15	-31	31	-15
2	S H POS	-3	-8	8	-3
3	D YS SEL	1	0	3	1
4	D YS DELAY	7	0	7	7
5	D SYNC MOD	ON	OFF	ON	ON
6	Text Sharp	OFF	OFF	ON	OFF

Select : ▲ ▼ Last menu : ◀ Enter Item : ►

• Device Register Setting ➔ External PLL MID-X

External PLL MID-X					
No	Descr.	Def.	Min	Max	Data
1	VCO7-0PAL	184	0	255	184
2	VCO7-0NTSC	172	0	255	172
3	VCO11-8	6	0	15	6
4	DIV1, 2, 4, 8	2	0	3	2
5	Fine Delay	0	0	63	0
6	Coar. Delay	0	0	3	0
7	Ch. Pump	0	0	3	0
8	PD Pol.	ON	OFF	ON	ON
9	DSync Wdth	3	0	3	3
10	DSync Del	OFF	OFF	ON	OFF
11	Sync Pol	ON	OFF	ON	ON
12	DSync Pol	ON	OFF	ON	ON
13	Clk En	ON	OFF	ON	ON
14	NClk En	OFF	OFF	ON	OFF
15	Clk/2 En	OFF	OFF	ON	OFF
16	NClk/2 En	OFF	OFF	ON	OFF
17	DSync En	ON	OFF	ON	ON
18	Unlock En	OFF	OFF	ON	OFF
19	VCO Bypass	ON	OFF	ON	ON
20	Synth Pwr	ON	OFF	ON	ON
21	Rdout Pwr	OFF	OFF	ON	OFF
22	DIVOUT En	ON	OFF	ON	ON
23	DSync Byp	OFF	OFF	ON	OFF
24	DSync Hold	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Panorama Chip

Panorama Chip					
No	Descr.	Def.	Min	Max	Data
1	ROM speed	25	0	255	25
2	Prg. No.	0	0	11	0
3	HSize Offs	3	0	15	3
4	IMODE	0	0	255	0
5	Disable	OFF	OFF	ON	OFF
6	Send AUX	OFF	OFF	ON	OFF
7	AUX0	67	0	255	67
8	AUX1	0	0	255	0
9	AUX2	68	0	255	68
10	AUX3	0	0	255	0
11	AUX4	12	0	255	12
12	AUX5	81	0	255	81
13	AUX6	7	0	255	7
14	AUX7	0	0	255	0
15	AUX8	65	0	255	65
16	AUX9	244	0	255	244
17	AUX10	32	0	255	32
18	AUX11	209	0	255	209
19	AUX12	7	0	255	7
20	AUX13	0	0	255	0

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Auto wide

Auto wide					
No	Descr.	Def.	Min	Max	Data
1	Upaara	ON	OFF	ON	ON
2	Upthin	OFF	OFF	ON	OFF
3	Enjtoz	OFF	OFF	ON	OFF
4	X149j	ON	OFF	ON	ON
5	Syncslc	OFF	OFF	ON	OFF
6	Tm	1	0	3	1
7	Uprlvl	OFF	OFF	ON	OFF
8	Ofslvl	OFF	OFF	ON	OFF
9	Alpf	3	0	3	3
10	eddec2	3	0	3	3
11	Lnstblz	ON	OFF	ON	ON
12	Lnshys	OFF	OFF	ON	OFF
13	Drkpri	ON	OFF	ON	ON

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Sound

Sound					
No	Descr.	Def.	Min	Max	Data
1	Carr.-Mute	ON	OFF	ON	ON
2	SCART1 Vol	79	0	127	79
3	SCART2 Vol	79	0	127	79
4	SCART-Pr.	27	0	127	27
5	I251-Pr.	16	0	127	16
6	I252-Pr.	16	0	127	16
7	FM Pr.	27	0	127	27
8	BG Nic. Pr.	53	0	127	53
9	L Nic. Pr.	59	0	127	59
10	DK Nic. Pr.	53	0	127	53
11	I Nic. Pr.	97	0	127	97
12	Irl Nic. Pr.	97	0	127	97
13	Subw. Vol.	0	-127	0	0
14	Bass Offs	0	-3	3	0
15	Treble Offs	2	-3	3	2
16	Loudn. Offs	0	0	9	0
17	HP-Vol Offs	-2	-5	5	-2
18	M-S Limit	30	-128	127	30
19	M-B Limit	-30	-128	127	-30
20	S-M Limit	12	-128	127	12
21	S-B Limit	-20	-128	127	-20
22	B-M Limit	-12	-128	127	-12
23	B-S Limit	20	-128	127	20
24	Err. Max	40	0	255	40
25	Err. Min	18	0	255	18
26	Vol. Offset	-3	-6	0	-3

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Picture Booster

Picture Booster					
No	Descr.	Def.	Min	Max	Data
1	DEM	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• **Device Register Setting ➔ Analog NR**

Analog NR					
No	Descr.	Def.	Min	Max	Data

• **Device Register Setting ➔ MCP**

MCP					
No	Descr.	Def.	Min	Max	Data
1	Contrast	46	0	63	46
2	Hue	32	0	63	32
3	System	3	0	3	1
4	Colour	29	0	63	24
5	Brightness	55	0	63	55
6	Sharpness	31	0	63	29
7	R-Drive	42	0	63	42
8	D-Col	OFF	OFF	ON	OFF
9	G-Drive	42	0	63	42
10	B-Drive	42	0	63	42
11	R-Cutoff	20	0	63	20
12	G-Cutoff	20	0	63	20
13	B-Cutoff	20	0	63	20
14	H-Width	0	0	3	0
15	CR-Offset 1	2	0	15	11
16	CB-Offset 1	2	0	15	11
17	Sub-Contr.	7	0	15	7
18	Sub-Colour	7	0	15	7
19	Sub-Hue	7	0	15	7
20	CTI-Level	1	0	3	1
21	R-Y/R	10	0	15	10
22	R-Y/B	15	0	15	15
23	G-Y/R	10	0	15	10
24	G-Y/B	7	0	15	7
25	Gamma	3	0	15	3
26	P-Abl	15	0	15	15
27	BLK-Bottom	5	0	15	5
28	Sub-Sharp	1	0	3	1
29	Sharp F0	3	0	3	2
30	Pre/Over	1	0	3	1
31	LTI-Level	1	0	3	0
32	DC-Tran	0	0	3	0
33	DPIC-Level	0	0	3	0

Select : ▲ ▼ Last menu : ◀ Enter Item : ▶

• **Special Adjustment**

Special Adjustment				
No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	23
3	RGB PAT Level	0	7	0
4	RGB PAT Gain	0	31	18
5	Extra FW	0	255	255
6	EPG ChkS Check	OFF	ON	ON
7	SLicer High	OFF	ON	ON
8	FCW Wide	OFF	ON	OFF
9	Mpeg NR	OFF	ON	OFF
10	Notch Filter	OFF	ON	OFF
11	NLD step	-7	0	-1
12	PKD step	-15	0	-3
13	CRD step	0	15	3
14	SHP step	-7	0	-2
15	COL step	-7	0	-1
16	NTSC Auto Yc AV2	OFF	ON	ON
17	NTSC Auto Yc AV3	OFF	ON	ON
18	RGB Disable	OFF	ON	OFF
19	Telop C/M	OFF	ON	ON
20	Intern GD	OFF	ON	ON
21	AV2 YC mix out	OFF	ON	OFF

Select : ▲ ▼ Last menu : ◀ Enter Item : ▶

3-1-4. Service List (Projector Engine) : Fixed data

D9512 TG

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TG	0	INV CTL	0	0, 1	INVERT CONTROL	CXD9512
	1	POS CTL	13	0-15	POSITION CONTROL	
	2	H POS	9	0-255	TG H POSITION	
	3	V POS H	4	0-255	TG V POSITION H	
	4	V POS D	30	0-255	TG V POSITION DOT	
	5	HST POL	0	0, 1	HST POLARITY	
	6	HCK W	0	0, 1	HCK WIDTH	
	7	HST POS	15	0-63	HST POSITION	
	8	HCK POL	1	0, 1	HCK POLARITY	
	9	HCK A-INV	0	0, 1	HCK AUTO INVERT	
	10	VST POL	0	0, 1	VST POLARITY	
	11	VST A-INV	0	0, 1	VST AUTO INVERT	
	12	HST PHA	1	0-15	HST PHASE	
	13	VCK POL	0	0, 1	VCK POLARITY	
	14	VST POS	0	0-127	VST POSITION	
	15	ENB POS	23	0-255	ENB POSITION	
	16	ENB W	40	0-255	EMB POSITION	
	17	BLK ON	0	0, 1	BLK ON	
	18	BLK POL	0	0, 1	BLK POLARITY	
	19	PCG POS	2	0-63	PCG POSITION	
	20	PCG B-OR	0	0, 1	PCG BLK OR	
	21	PCG B-SEL	0	0, 1	PCG BLK SELECT	
	22	PCG W	3	0-63	PCG WIDTH	
	23	PRG POS	2	0-63	PRG POSION	
	24	PRG B-OR	0	0, 1	PRG BLK OR	
	25	PRG B-SEL	0	0, 1	PRG BLK SELECT	
	26	PRG W	9	0-63	PRG WIDTH	
	27	BLK POS	0	0-255	BLK POSTION	
	28	BLK W	0	0-255	BLK WIDTH	
	29	CLR W	0	0-255	CLR WIDTH	

D9512 IM

Category	Item number	Adjustment item	Standard data	Data range	Note	Device				
D9512 IM	0	V-ST-POS	9	0-255	V START POSITION	CXD9512				
	1	H-ST-POS	97	0-255	H START POSITION					
	2	SUB CON	32	0-63	SUB CONTRAST LEVEL					
	3	SUB BRT	12	0-63	SUB BRIGHT LEVEL					
	4	V BLKT H	0	0-255	V BLANKING POSITION TOP					
	5	V BLKT L	0	0-3	V BLANKING POSITION TOP2					
	6	V BLKB H	0	0-255	V BLANKING POSITION BOTTOM					
	7	V BLKB L	0	0-3	V BLANKING POSITION BOTTOM 2					
	8	H BLKL H	0	0-255	H BLANKING POSITION LEFT					
	9	H BLKL L	0	0-3	H BLANKING POSITION LEFT 2					
	10	H BLKR H	0	0-255	H BLANKING POSITION RIGHT					
	11	H BLKR L	0	0-3	H BLANKING POSITION RIGHT 2					
	12	ASL SW	0	0, 1	ASL SWITCH					
	13	ASL SEL	0	0-3	ASL SELECT					
	14	B PIC LV	0	0-15	BLUE PICASL LEVEL					
	15	B BRT LV	15	0-15	BLUE BRTASL LEVEL					
	16	G PIC LV	0	0-15	GREEN PICASL LEVEL					
	17	G BRT LV	15	0-15	GREEN BRTASL LEVEL					
	18	R PIC LV	0	0-15	RED PICASL LEVEL					
	19	R BRT LV	15	0-15	RED BRTASL LEVEL					
	20	PIC AREA	7	0-7	PICASL AREA					
	21	BRT AREA	7	0-7	BRTASL AREA					
	22	PIC ST	0	0-3	PICASL START TIMING					
	23	BRT ST	0	0-3	BRTASL START TIMING					
	24	PRE SL	3	0-3	PRE SLOPE					
	25	POST SL	3	0-3	POST SLOPE					
	26	APC MODE	2	0-2	APC MODE					
	27	APC SW	1	0, 1	APC SWITCH					
	28	APC TH	10	0-255	APC THRESHOLD					
	29	APC LIMT	30	0-63	APC LIMITTER					
30	APC LEV	60	0-255	APC LEVEL						
	31	G-PICT	LIVE 100	PERSONAL 69	MOVIE 66	GAME 69		0-100	PICTURE	
	32	G-BRIGHT	51	51	51	51		0-100	BRIGHT	

D9512 WB

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 WB	0	B GAIN	127	0-255	W/B GAIN BLUE	CXD9512
	1	G GAIN	127	0-255	W/B GAIN GREEN	
	2	R GAIN	127	0-255	W/B GAIN RED	
	3	B BIAS	85	0-255	W/B BIAS BLUE	
	4	G BIAS	85	0-255	W/B BIAS GREEN	
	5	R BIAS	85	0-255	W/B BIAS RED	
	6	B GAIN H	143	0-255	W/B GAIN BLUE	
	7	G GAIN H	125	0-255	W/B GAIN GREEN	
	8	R GAIN H	130	0-255	W/B GAIN RED	
	9	B BIAS H	127	0-255	W/B BIAS BLUE	
	10	G BIAS H	130	0-255	W/B BIAS GREEN	
	11	R BIAS H	128	0-255	W/B BIAS RED	
	12	B GAIN L	115	0-255	W/B GAIN BLUE	
	13	G GAIN L	125	0-255	W/B GAIN GREEN	
	14	R GAIN L	144	0-255	W/B GAIN RED	
	15	B BIAS L	128	0-255	W/B BIAS BLUE	
	16	G BIAS L	127	0-255	W/B BIAS GREEN	
	17	R BIAS L	120	0-255	W/B BIAS RED	

D9512 TES

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TES	0	REF PER	1	0, 1	REFRESH PERMISSION	CXD9512
	1	REF LENG	0	0-7	REFRESH LENGTH	
	2	G-LUT SW	0	0, 1	GAMMA LUT THROUGH	
	3	CORR WGT	2	0-3	CORRECT WEIGHT	
	4	SHAD SW	0	0, 1	SHADING SWITCH	
	5	3D-G SW	0	0, 1	3D GAMMA SWITCH	
	6	3D-G Z	0	0, 1	3D GAMMA MODE Z	
	7	3D-G VH	0	0, 1	3D GAMMA MODE VH	
	8	3D-G BS	1	0, 1	3D GAMMA BLOCK SIZE	
	9	AGC P SW	1	0, 1	AGC PULSE SWITCH	
	10	AGC SHP POS	43	0-127	AGC SH PULSE POSITION	
	11	AGC SHP SEL	1	0-3	AGC SH PULSE SELECT	
	12	AGC SHP W	2	0-63	AGC SH PULSE WIDTH	

D9512 TPN

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TPN	0	T-PATN SW	0	0, 1	TEST PATTERN SWITCH	CXD9512
	1	T-SIG SEL	1	0-7	TEST SIGNAL SELECT	
	2	PATN DIR	1	0, 1	PATTERN DIRECTION	
	3	SIG LV DIR	0	0, 1	SIGNAL LEVEL DIRECTION	
	4	T-PATN PIT	144	0-255	TEST PATTERN PITCH	
	5	B-LV	25	0-63	BLUE TEST PATTERN LEVEL	
	6	G-LV	25	0-63	GREEN TEST PATTERN LEVEL	
	7	R-LV	25	0-63	RED TEST PATTERN LEVEL	
	8	T-PATN RGB	7	0-7	RGB TEST ENABLE	

D9512 TFR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TFR	0	CRIP	1	0, 1	FRAME CRIP	CXD9512
	1	CUR TOP	0	0, 1	FRAME CURSOR TOP	
	2	CUR BOT	0	0, 1	FRAME CURSOR BOTTOM	
	3	CUR L	0	0, 1	FRAME CURSOR LEFT	
	4	CUR R	0	0, 1	FRAME CURSOR RIGHT	
	5	POS TOP	0	0-255	FRAME POSITION TOP	
	6	POS BOT	255	0-255	FRAME POSITION BOTTOM	
	7	POS L	0	0-255	FRAME POSION LEFT	
	8	POS R	255	0-255	FRAME POSITION RIGHT	
	9	OSD B	25	0-31	BLUE OSD LEVEL	
	10	OSD G	25	0-31	GREEN OSD LEVEL	
	11	OSD R	25	0-31	RED OSD LEVEL	
	12	OSD YM	0	0-7	PICTURE HALF TONE LEVEL	
	13	OSD I	3	0-7	OSD HALF TONE LEVEL	

GAMMA

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
GAMMA	0	ADJ ON	0	0, 1	INVERT CONTROL	
	1	GAMMA R0	255	0-255	GAMME ADJ (R)	
	2	GAMMA R1	255	0-255	GAMME ADJ (R)	
	3	GAMMA R2	255	0-255	GAMME ADJ (R)	
	4	GAMMA R3	255	0-255	GAMME ADJ (R)	
	5	GAMMA R4	255	0-255	GAMME ADJ (R)	
	6	GAMMA R5	255	0-255	GAMME ADJ (R)	
	7	GAMMA R6	255	0-255	GAMME ADJ (R)	
	8	GAMMA R7	255	0-255	GAMME ADJ (R)	
	9	GAMMA G0	255	0-255	GAMME ADJ (G)	
	10	GAMMA G1	255	0-255	GAMME ADJ (G)	
	11	GAMMA G2	255	0-255	GAMME ADJ (G)	
	12	GAMMA G3	255	0-255	GAMME ADJ (G)	
	13	GAMMA G4	255	0-255	GAMME ADJ (G)	
	14	GAMMA G5	255	0-255	GAMME ADJ (G)	
	15	GAMMA G6	255	0-255	GAMME ADJ (G)	
	16	GAMMA G7	255	0-255	GAMME ADJ (G)	
	17	GAMMA B0	255	0-255	GAMME ADJ (B)	
	18	GAMMA B1	255	0-255	GAMME ADJ (B)	
	19	GAMMA B2	255	0-255	GAMME ADJ (B)	
	20	GAMMA B3	255	0-255	GAMME ADJ (B)	
	21	GAMMA B4	255	0-255	GAMME ADJ (B)	
	22	GAMMA B5	255	0-255	GAMME ADJ (B)	
	23	GAMMA B6	255	0-255	GAMME ADJ (B)	
	24	GAMMA B7	255	0-255	GAMME ADJ (B)	

LCD-DR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
LCD-DR	0	FRP CNT	0	0, 1	FR PULSE CONT	
	1	R VCOM	127	0-255	V COM ADJ (R)	
	2	R ODD VR	24	0-255	ODD ADJ (R)	
	3	R EVEN VR	24	0-255	EVEN ADJ (R)	
	4	R DLY CNT	127	0-255	DLY CONT (R)	
	5	R DA VSET	200	0-255	D/A VOLTAGE SET (R)	
	6	G VCOM	127	0-255	V COM ADJ (G)	
	7	G ODD VR	24	0-255	ODD ADJ (G)	
	8	G EVEN VR	24	0-255	EVEN ADJ (G)	
	9	G DLY CNT	127	0-255	DLY CONT (G)	
	10	G DA VSET	200	0-255	D/A VOLTAGE SET (G)	
	11	B VCOM	127	0-255	V COM ADJ (B)	
	12	B ODD VR	97	0-255	ODD ADJ (B)	
	13	B EVEN VR	97	0-255	EVEN ADJ (B)	
	14	B DLY CNT	127	0-255	DLY CONT (B)	
	15	B DA VSET	177	0-255	D/A VOLTAGE SET (B)	
	16	R VREF SEL	0	0, 1	VOLTAGE REF SELECT (R)	
	17	G VREF SEL	0	0, 1	VOLTAGE REF SELECT (G)	
	18	B VREF SEL	0	0, 1	VOLTAGE REF SELECT (B)	

GPLL-C-JPN

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
GPLL-C-JPN	0	VCOL	248	0-255	COUNTER L	
	1	VCOH	5	0-15	COUNTER H	
	2	DIV	2	0-3	DIVIDER	
	3	CODL	0	0-3	DELAY	
	4	FIDL	15	0-31	FINE DELAY	
	5	PPOL	1	0, 1	PHASE COMP. INPUT POLARITY SET	
	6	CPMP	2	0-3	CHARGE PUMP	
	7	UNLO	1	0, 1	UNLOCK OUT ON/OFF	
	8	DSYN	1	0, 1	DELAY SYNC ON/OFF	
	9	CL2	1	0, 1	1/2 TTL CLOCK ON/OFF	
	10	DSYP	0	0, 1	DELAY SYNC OUTPUT POLARITY	
	11	SYP	0	0, 1	INPUT SYNC POLARITY	

PLL-C-N/P

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
PLL-C-N/P	0	VCOL	248	0-255	COUNTER L	
	1	VCOH	5	0-15	COUNTER H	
	2	DIV	2	0-3	DIVIDER	
	3	CODL	0	0-3	DELAY	
	4	FIDL	15	0-31	FINE DELAY	
	5	PPOL	1	0, 1	PHASE COMP. INPUT POLARITY SET	
	6	CPMP	2	0-3	CHARGE PUMP	
	7	UNLO	1	0, 1	UNLOCK OUT ON/OFF	
	8	DSYN	1	0, 1	DELAY SYNC ON/OFF	
	9	CL2	1	0, 1	1/2 TTL CLOCK ON/OFF	
	10	DSYP	0	0, 1	DELAY SYNC OUTPUT POLARITY	
	11	SYP	0	0, 1	INPUT SYNC POLARITY	

IP00C741A

No mark : PAL or common, () : NTSC

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741A	0	CALCULATION	0	0, 1		
	1	OACTHST-L	92 (95)	0-255	OUTPUT PORT ACT HORIZONTAL START POINT	
	2	OACTHST-H	0	0-15	OUTPUT PORT ACT HORIZONTAL START POINT	
	3	SYRDLY	22 (11)	0-255	FORCED SYNC RESET DELAY	
	4	HZOOM-L	30	0-255	HORIZONTAL ENLARGEMENT CONTROL	
	5	HZOOM-H	14	0-15	HORIZONTAL ENLARGEMENT CONTROL	
	6	VZOOM-L	0 (10)	0-15	VERTICAL ENLARGEMENT CONTROL	
	7	VZOOM-H	192 (160)	0-255	VERTICAL ENLARGEMENT CONTROL	
	8	OHCYCL-L	127 (16)	0-255	OUTPUT PORT HORIZONTAL SYNC SIGNAL CYCLE	
	9	OHCYCL-H	3	0-15	OUTPUT PORT HORIZONTAL SYNC SIGNAL CYCLE	
	10	OVCYCL-L	232	0-255	OUTPUT PORT VERTICAL SYNC SIGNAL CYCLE	
	11	OVCYCL-H	3	0-15	OUTPUT PORT VERTICAL SYNC SIGNAL CYCLE	
	12	OACTHW-L	168	0-255	OUTPUT PORT ACT HORIZONTAL WIDTH	
	13	OACTHW-H	2	0-15	OUTPUT PORT ACT HORIZONTAL WIDTH	
	14	OACTVST-L	0	0-255	OUTPUT PORT ACT VERTICAL DIRECTION START POINT	
	15	OACTVST-H	0	0-15	OUTPUT PORT ACT VERTICAL DIRECTION START POINT	
	16	OACTVW-L	0	0-255	OUTPUT PORT ACT VERTICAL WIDTH	
	17	OACTVW-H	3	0-15	OUTPUT PORT ACT VERTICAL WIDTH	
	18	IACTHST-L	111 (116)	0-255	INPUT PORT ACT HORIZONTAL START POINT	
	19	IACTHST-H	0	0-15	INPUT PORT ACT HORIZONTAL START POINT	
	20	IACTHW-L	88	0-255	INPUT PORT ACT HORIZONTAL WIDTH	
	21	IACTHW-H	2	0-15	INPUT PORT ACT HORIZONTAL WIDTH	
	22	IACTVST-L	23 (4)	4-255	INPUT PORT ACT VERTICAL START POINT	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	23	IACTVST-H	0	0-15	INPUT PORT ACT VERTICAL START POINT	
	24	IACTVW-L	64 (226)	0-255	INPUT PORT ACT VERTICAL WIDTH	
	25	IACTVW-H	2 (1)	0-15	INPUT PORT ACT VERTICAL WIDTH	

IP00C741E

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741E	0	OHSCT	8	0-31	OUTPUT PORT HORIZONTAL SYNC SIGNAL CONTROL	
	1	OVPH	0	0-7	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	2	OVSCT	7	0-15	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	3	IIMGCT	0	0, 1	INPUT IMAGE CONTROL SIGNAL	
	4	IBIE	0	0, 1	BUSY/INT ENABLE BIT	
	5	BI	0	0, 1	BUSY/INT SPECIFICATION BIT	
	6	ICMD	1	0, 1	IMAGE INPUT COMMAND	
	7	OCMD	1	0, 1	IMAGE OUTPUT COMMAND	
	8	SYREN	1	0, 1	FORCED SYNCHRONIZATION ENABLE	
	9	SYRMOD	1	0, 1	FORCED SYNCHRONIZATION TIMING CONTROL	
	10	ACTPOL	0	0, 1	POACT OUTPUT POLARITY SELECT	
	11	ACTS	0	0-3	POACT SELECT	
	12	OGEN	1	0, 1	IMAGE OUTPUT PORT SYNC SIGNAL GENERATION ENABLE	
	13	OHPOL	0	0, 1	POLARITY OF THE POHS SIGNAL	
	14	OVPOL	0	0, 1	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	15	OACT-MOD	1	0, 1	OUTPUT PORT ACT MODE SELECT	
	16	OACT-DL	0	0-3	OUTPUT PORT ACT START TIMING	
	17	OACT-HMK	0	0, 1	OUTPUT PORT ACT START POHS MARK	
	18	OMOD	0	0, 1	IMAGE OUTPUT MODE	
	19	OBKSL	0	0, 1	IMAGE OUTPUT SELECT	
	20	OFILLEN	0	0, 1	OUTPUT FILL	
	21	OPXDLY	0	0, 1	OUTPUT 1 PIXEL DELAY	
	22	IAPOL	0	0, 1	PIACT SIGNAL POLARITY SELECT	
	23	IVPOL	1	0, 1	V SYNC SIGNAL POLARITY SELECT	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	24	IHPOL	0	0, 1	H SYNC SIGNAL POLARITY SELECT	
	25	IVSSEL	0	0-3	V SYNC SIGNAL SELECT	
	26	IHSSEL	0	0, 1	H SYNC SIGNAL SELECT	
	27	IMOD	0	0, 1	IMAGE INPUT MODE	
	28	VAL	0	0-3	PIXEL VALUE MEASUREMENT MODE	
	29	UPSEL	0	0, 1	PIXEL SELECTION DURING INTERLEAVED INPUT	
	30	MONSTV-L	5	0-255	IMAGE MONITOR VERTICAL START POINT	
	31	MONSTV-H	0	0-7	IMAGE MONITOR VERTICAL START POINT	
	32	MONEDV-L	5	0-255	IMAGE MONITOR VERTICAL END POINT	
	33	MONEDV-H	1	0-7	IMAGE MONITOR VERTICAL END POINT	
	34	MONSTH-L	0	0-255	IMAGE MONITOR HORIZONTAL START POINT	
	35	MONSTH-H	0	0-7	IMAGE MONITOR HORIZONTAL START POINT	
	36	MONVW	0	0-255	IMAGE MONITOR VERTICAL WIDTH	
	37	MONHW	0	0-255	IMAGE MONITOR HORIZONTAL WIDTH	
	38	ECLP	0	0, 1	ERROR PROPAGATION OVERFLOW PROTECTION ENABLE	
	39	EDMOD0	0	0, 1	ERROR DIFFUSION MODE	
	40	EDEN	0	0, 1	ERROR DIFFUSION ENABLE	
	41	GOHSW-L	0	0-255	VERTICAL SYNC SIGNAL JUDGE COUNTER VALUE	
	42	GOHSW-H	0	0-15	VERTICAL SYNC SIGNAL JUDGE COUNTER VALUE	
	43	RTG1	2	0-3	REGISTER TRANSFER CONTROL	
	44	RTG0	2	0-3	REGISTER TRANSFER CONTROL	
	45	POSNEG	0	0, 1	IMAGE OUTPUT SYNC CLOCK SELECT	
	46	OBTSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	47	OBYSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	48	IBTSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	49	IBYSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	50	ISMPMD	0	0-3	INPUT/OUTPUT SIGNAL SELECTION	

IP00C741L

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741L	0	HZAS	0	0, 1	H ZOOM AS	
	1	HZLE	0	0, 1	HORIZONTAL ENLARGEMENT INTERPOLATION COEFFICIENT LOOKUP TABLE ENABLE	
	2	HZMD	1	0, 1	HORIZONTAL ENLARGEMENT MODE	
	3	HZIP	1	0, 1	HORIZONTAL ENLARGEMENT INTERPOLATION ENABLE	
	4	VZAS	0	0, 1	V ZOOM AS	
	5	VZLE	0	0, 1	VERTICAL ENLARGEMENT INTERPOLATION COEFFICIENT LOOKUP TABLE ENABLE	
	6	VZMD	1	0, 1	VERTICAL ENLARGEMENT MODE	
	7	VZIP	1	0, 1	VERTICAL ENLARGEMENT INTERPOLATION ENABLE	
	8	COLUTH0	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	9	COLUTH1	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	10	COLUTH2	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	11	COLUTH3	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	12	COLUTH4	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	13	COLUTH5	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	14	COLUTH6	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	15	COLUTH7	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	16	COLUTV0	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	17	COLUTV1	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	18	COLUTV2	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	19	COLUTV3	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	20	COLUTV4	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	21	COLUTV5	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	22	COLUTV6	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	23	COLUTV7	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	

IP00C741R

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741R	1	IFV L	0	0-255	NUMBER OF H SYNC SIGNALS ON INPUT PORT DURING V SYNC PERIOD	
	2	IFV H	0	0-3	NUMBER OF H SYNC SIGNALS ON INPUT PORT DURING V SYNC PERIOD	
	3	IPXCNT L	0	0-255	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	4	IPXCNT M	0	0-255	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	5	IPXCNT H	0	0-31	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	6	IPX00	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	7	IPX01	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	8	IPX02	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	9	IPX03	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	10	IPX10	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	11	IPX11	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	12	IPX12	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	13	IPX13	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	14	IPX20	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	15	IPX21	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	16	IPX22	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	17	IPX23	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	18	IPX30	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	19	IPX31	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	20	IPX32	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	21	IPX33	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	

OSD E

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IOSD E	0	VPOS	8	0-31	ENGINE SERVICE INDICATION V POSTION	
	1	HPOS	15	0-63	ENGINE SERVICE INDICATION H POSTION	
	2	OUT SYNC	0	0, 1	NOT USED ON SERVICE	
	3	OUT TIMI	1	0, 1	NOT USED ON SERVICE	
	4	OUT PHAS	0	0, 1	NOT USED ON SERVICE	
	5	OUT SEL	1	0, 1	NOT USED ON SERVICE	

OPTION E

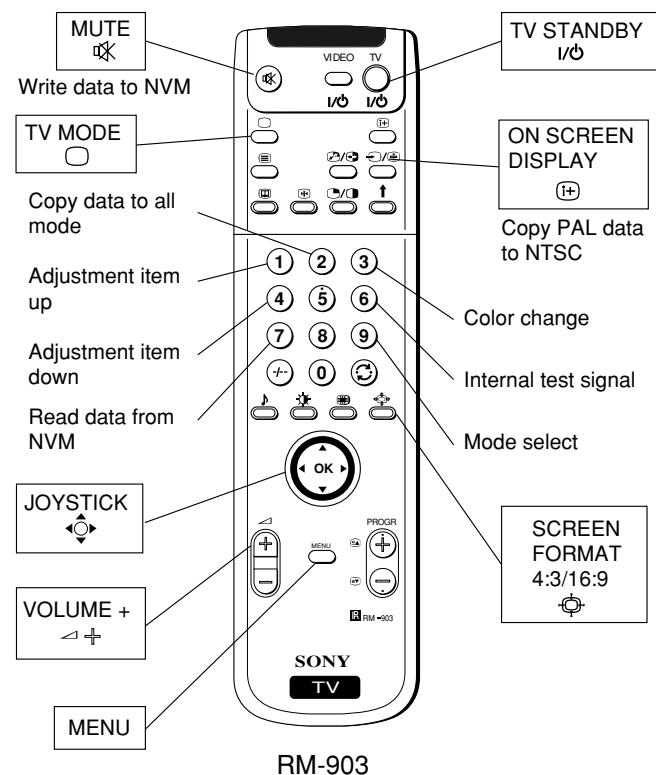
Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OPTION E	0	LAMP TIME	0	0, 1	LAMP LIGHTING TIME	
	1	LAMP OFF	0	0, 1	TIME FROM POWER OFF TO LAMP OFF (0: 0sec., 1: 5sec.)	
	2	FAN OFF	1	0, 1	TIME TO FAN STOP (0: 2min., 1: 2min.)	
	3	FAN1 RPM1	2	0-3	ROTATING SPEED OF FAN FOR OPTICS ON NORMAL CONDITION	
	4	FAN1 RPM2	2	0-3	ROTATING SPEED OF FAN FOR OPTICS AFTER POWER OFF	
	5	FAN2 RPM1	1	0-3	ROTATING SPEED OF FAN FOR LAMP ON NORMAL CONDITION	
	6	FAN2 RPM2	1	0-3	ROTATING SPEED OF FAN FOR LAMP AFTER POWER OFF	
	7	FLAG1	0	0-15	NOT USED ON SERVICE	
	8	AGING PT	1	0, 1	NOT USED ON SERVICE	
	9	TEMP SHIFT	1	0, 1	TEMPERATURE CORRECTION ON/OFF (0: OFF, 1: ON)	

LM75

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
LM75	0	SET	41DG	0-99DG	TEMPERATURE SWITCHING TO MAXIMUM VELOCITY OF WIND	
	1	TIME	10MIN	0-99MIN	TIME TO KEEP MAXIMUM VELOCITY OF WIND AND TO DETECT	

3-2. LCD PROJECTOR ENGINE

3-2-1. Operation Method for Projector Engine Mode

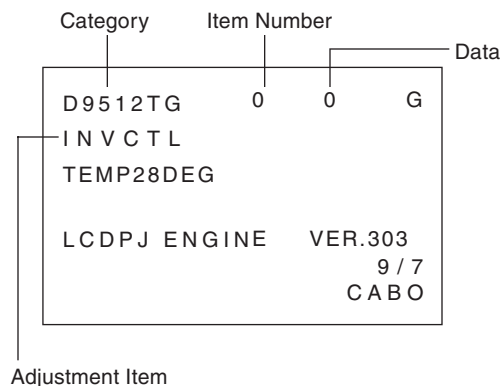


1. Functions of Keys on Commander

- (1) : Changes adjustment item. (item No. moves up)
- (4) : Changes adjustment item. (item No. moves down)
- (3) : Changes data value. (up)
- (6) : Changes data value. (down)
- (2) : Changes adjustment device. (up)
- (5) : Changes adjustment device. (down)
- (MUTE)+(0) : Writes data to NVM.
- (7)+(0) : Reads data from NVM.
- (8)+(0) : Initialize NVM data.

2. How to Enter Projector Engine Mode

- 1) "Projector Engine".
- 2) Press "(1)" or "(4)" button on the commander to select the item, and press "(3)" or "(6)" on the commander to change the data.



- 3) Before returning to the Service menu, press "(MUTE)" + "(0)" buttons on the commander to write the data. (Omission of this operation causes the set data to be returned to the data before adjustment)
- 4) Press "MENU" button on the commander to return to the Service menu.

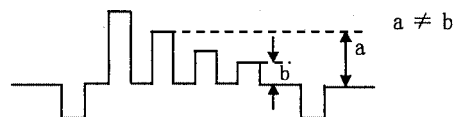
3-3. SUB COLOUR ADJUSTMENT

1. Input the colour bar (100% white) signal to AV4 and select AV4.
2. Setting

MCP	4	Colour	23
MCP	8	D-Col	OFF
MCP	26	Gamma	0
MCP	33	DC Tran	0
MCP	34	DPIC-Level	0

 Initialising → Feature setting
6 Pict Boost Bypass ON
3. Connect an oscilloscope to pin 1 of CN702 on BB board.
4. Adjust by changing data of "MCP 19 Sub-Colour" as shown in the figure.
5. Write the data into memory.

Before adjustment



After adjustment

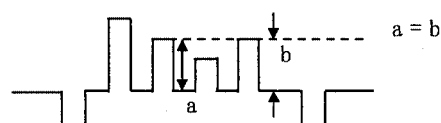


Fig. 3-1

3-4. RGB OUTPUT LEVEL ADJUSTMENT

1. Input the colour bar signal (100% white) to AV4 and select AV4.
2. Setting

MCP	26	Gamma	0
MCP	33	DPIC-Level	0
MCP	34	DC-Tran	0
3. Connect an oscilloscope to pin 5 (R), pin 3 (G) or pin 1 (B) of CN702 on BB board.
4. Initialising ➔ Feature setting

6 Pict Boost Bypass ON			
------------------------	--	--	--
5. Adjust drive; A and cutoff; B by changing data of followings as shown in the figure.

MCP	7	R-Drive
MCP	9	G-Drive
MCP	10	B-Drive
MCP	11	R-Cutoff
MCP	12	G-Cutoff
MCP	13	B-Cutoff
6. Write the data into memory.

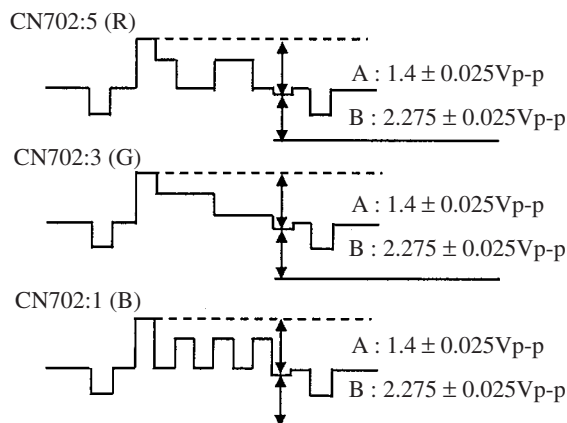


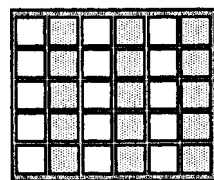
Fig. 3-2

3-5. VERTICAL STRIPE ADJUSTMENT

1. Setting

D9512 TES	2	G-LUT SW	0
D9512 TPN	0	T-PATN SW	1
D9512 TPN	1	T-SIG SEL	0
D9512 TPN	2	PATN DIR	1
D9512 TPN	3	SIG LV DIR	0
D9512 TPN	5	B-LV	15
D9512 TPN	6	G-LV	15
D9512 TPN	7	R-LV	15
2. Check the middle luminance of mono flat field on the screen.

3. R adjustment
 - 1) Set "D9512 TPN 8 T-PATN RGB" to 1.
 - 2) Adjust by changing data of "LCD-DR 3 R EVEN VR" to the vertical stripe (brightness difference every two dots) to minimum.
 - 3) Write the data into memory.
4. G adjustment
 - 1) Set "D9512 TPN 8 T-PATN RGB" to 2.
 - 2) Adjust by changing data of "LCD-DR 8 G EVEN VR" to the vertical stripe (brightness difference every two dots) to minimum.
 - 3) Write the data into memory.
3. B adjustment
 - 1) Set "D9512 TPN 8 T-PATN RGB" to 4.
 - 2) Adjust by changing data of "LCD-DR 3 B EVEN VR" to the vertical stripe (brightness difference every two dots) to minimum.
 - 3) Write the data into memory.



Screen magnify
Should be minimize bright
difference every two dots.

Fig. 3-3

3-6. SUB BRIGHT ADJUSTMENT

1. Receive the monoscope signal.
2. Mode

PICTURE	Personal
SCREEN SIZE	Full
3. Adjust by changing data of "D9512 IM 3 SUB BRT" so that the border between 0 IRE and 10 IRE becomes distinct.
4. Write the data into memory.

3-7. SCREEN CENTER ADJUSTMENT

- 3-7-1. Horizontal center adjustment

50Hz : PAL SPCB
60Hz : PAP (PAL SPCB for main and sub)

 - 1) Adjust H center by changing data of "IP00C741A 1.OACTHST-L".
- 3-7-2. Vertical center adjustment

50Hz : PAL SPCB
60Hz : INDEX

 - (1) 50Hz adjustment

Input PAL SPCB and adjust V center by changing data of "IP00C741A 3. SYRDLY".

(2) 60Hz adjustment

* Input NTSC MONOSCO. Adjust "3. SYRDLY" to find out the value terrible picture flicker occurs.

Note the value for 60Hz adjustment.

1) Receive RF and change picture to INDEX

2) Adjust V center by "3. SYRDLY".

Be sure that ± 1 step area of the noted value is prohibited.

3-8. TEST-TEST MODE

1.1.3 Test-Test-Commands

Entering the TT mode method :

Commander : Press test button twice.

The diagnosis menu can be displayed by these methods :

TT mode : Press 33

Service Menu : Monitoring → Error Monitor or LCD-Engine Error Menu

For correction of any wrong input (first digit.) by mistake these methods are possible :

Press“- -”

Press“0”

Press test button

The test-Test Mode can be left by these methods :

Press“0” twice.

Press TV button

Press standby button

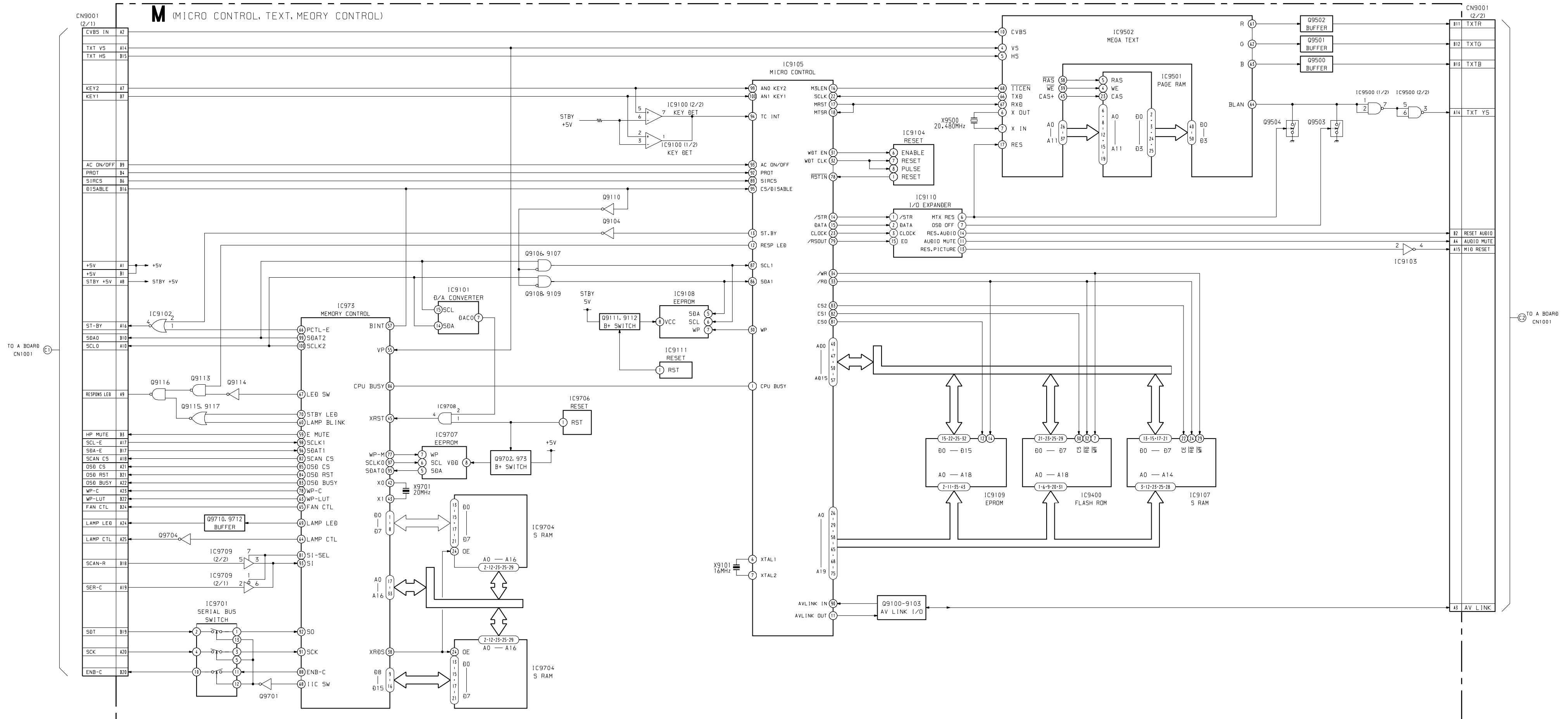
00	TT mode off
01	picture maximum
02	picture minimum
03	volume = 30% (speaker and headphone)
04	volume = 50% (speaker and headphone)
05	volume = 65% (speaker and headphone)
06	volume = 80% (speaker and headphone)
07	Ageing Mode This TT mode is stored in NVM, after power shut down TV starts again in Ageing mode. Ageing Mode can be left by pressing TV button. Volume is set to minimum.
08	Shipping Conditions Note : The u-controller checks all possible IC's and generate an internal list. This list is the base of the error check procedure. Production mode = off Ignore Errors = off Errors = cancelled Standby = off Parental lock = off Ageing white = off Flash = erased Language = English Country = off AV1 = Normal, "AV1" AV2 = Normal, "AV2" AV3 = Normal, "AV3" AV4 = Normal, "AV4" AV In Main = AV1 AV In Sub = AV1 AV2 Out = TV Main program = 1 Sub program = 2

	Picture Mode = Live AI = on Noise reduction = AUTO Colour Tone = Normal volume = 35% (speaker and headphone) Space sound = off Loudness = off All analogue values = reset (picture and sound) Format = Smart Sound mode = FLAT
09	Enter the projector engine menu
10	No action
11	Sub picture adjustment
12	Sub colour adjustment
13	Display of software version and TV set configuration
16	Picture level 50%
17	Audio mute on
19	Sub brightness adjustment
20	No action
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	No action
32	Main H POS adjustment Horizontal center adjustment for MID-X input. Adjustment is done with left and right joystick button, released by "TV" or "OK" button
33	Error monitor
35	CRT 4:3<_> 16:9, display TV status
39	No action (AE2 dealer commander)
40	No action
41	Screen Mode Check
	TV set is toggling automatically screen modes (4:3, 14:9, zoom, zoom upwards)
46	Reserved for dealer commander
47	Reinitialize NVM (program 99)
48	Set NVM as non virgin:
49	Set NVM as virgin: After next power on the complete NVM (except channel tables) are overwritten.
50	No action
59	Copy external NVM on service connector to internal NVM
60	No action
61	Service Mode
62	Productions Mode
63	Copy the picture reset from ROM into the picture reset location of NVM.
64	Copy the actual adj. Picture data from NVM into the picture reset location of NVM.

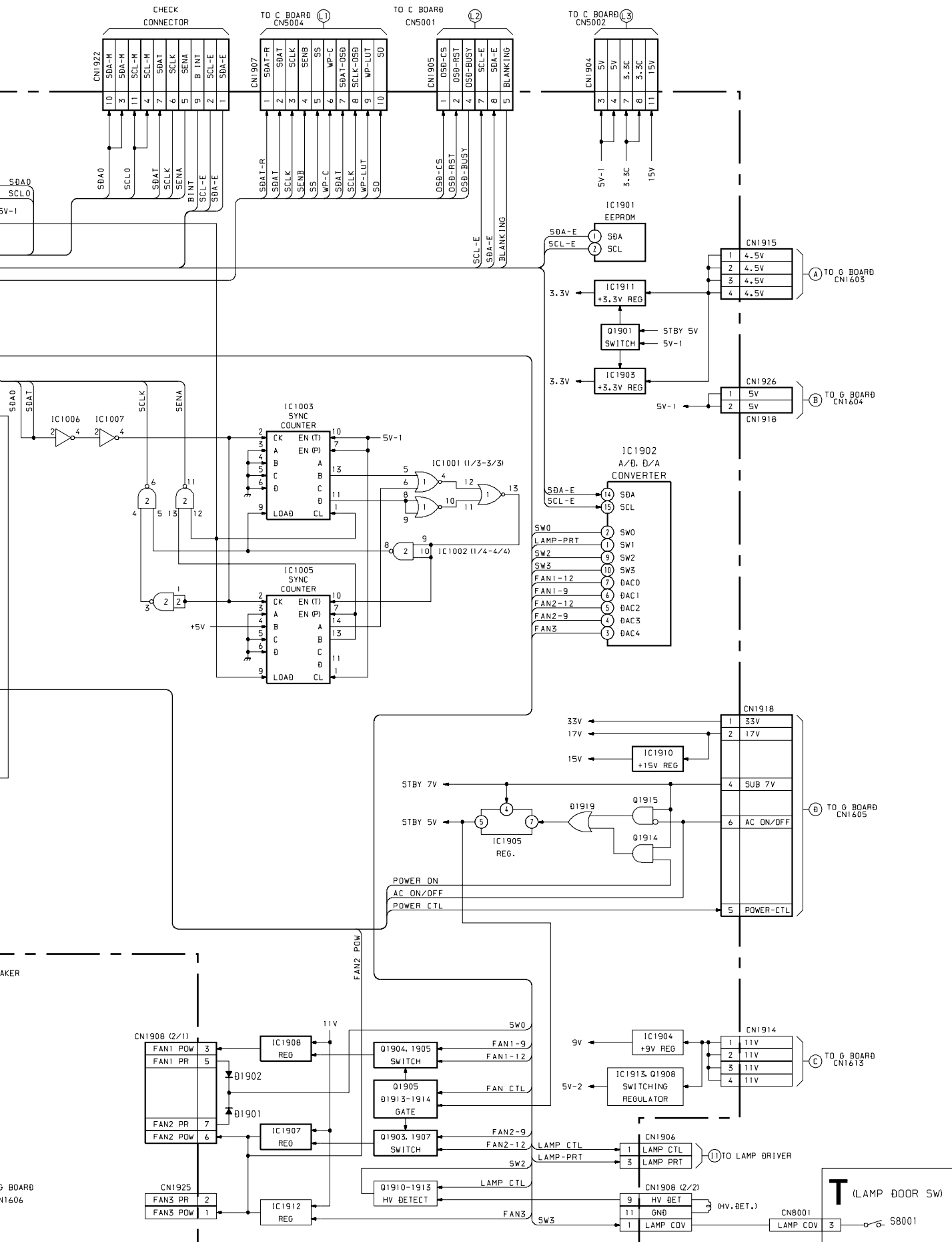
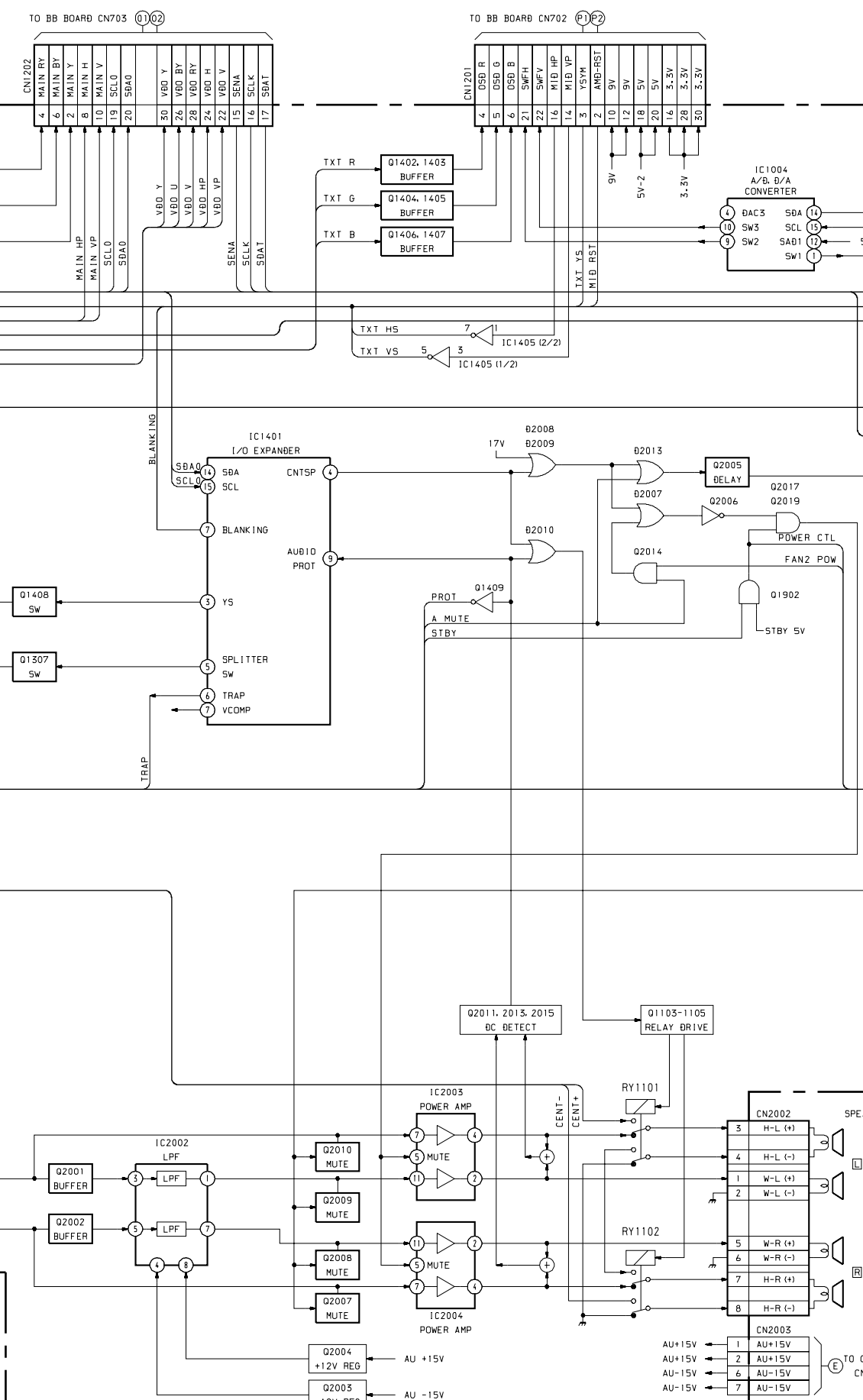
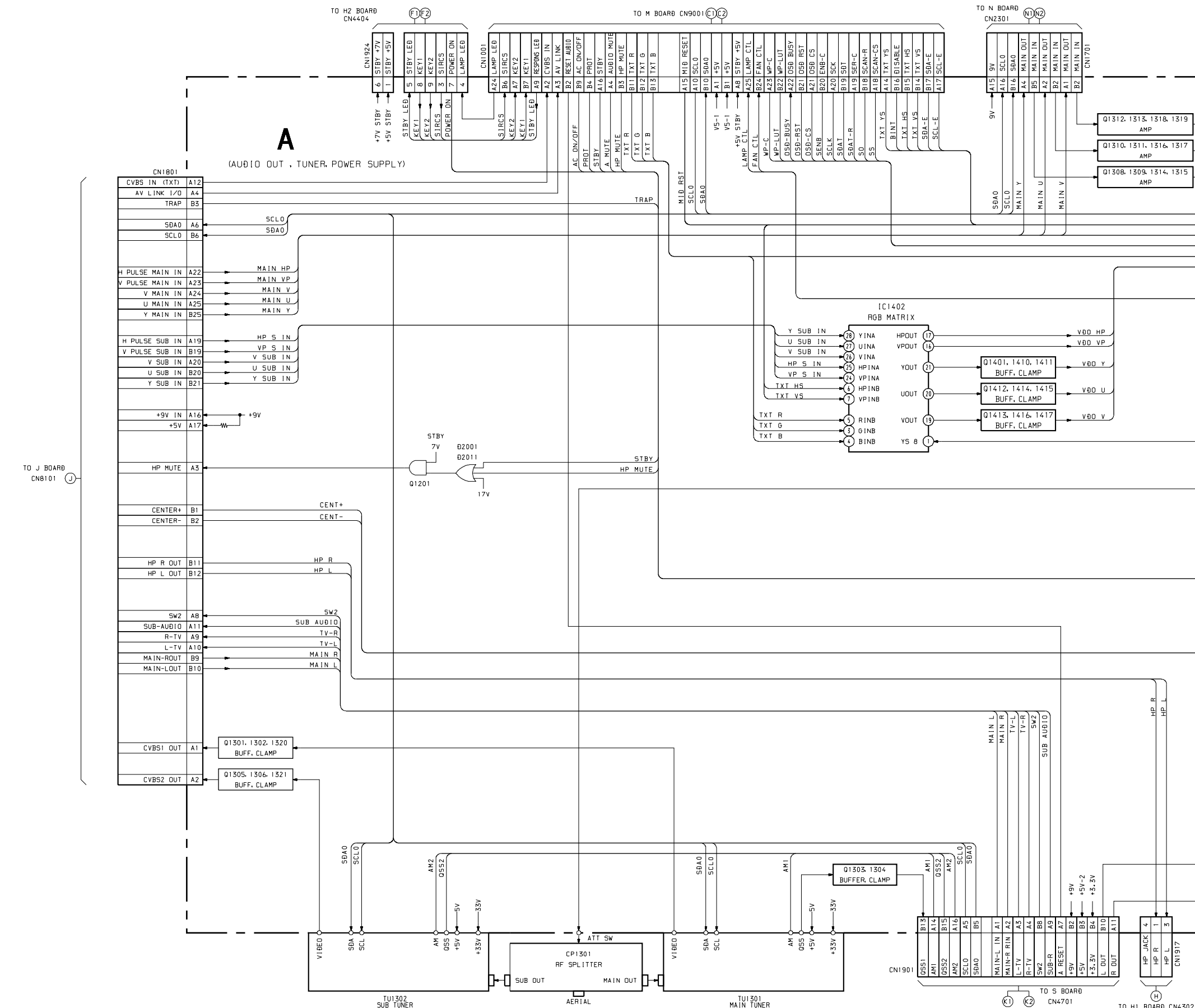
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	No action
71	Copy default data of PANORAMA/external PLL/MID/MID-X from ROM into NVM.
73	Clear all programs except program 1-5 and all station labels
77	Picture Booster check
78	No video blanking
80	No action
81	Smart Link test signal on AV2Pin10
83	Balance left/right
84	Switch Main/Center
85	Special Picture mode (set personal pict. Mode, set brightness to 50%, set picture to 80%)
87	Personal ID reset Personal ID is reset and initialized with "-" (program 99)
88	Parental lock off
89	OSD mute on/off
90	No action
94	INDEX mode test command, released by OK or 00.
99	Speaker check, released by OK or 00.

This image shows a full page of white paper designed for handwriting practice. It features approximately 20 evenly spaced, horizontal dashed lines that run across the entire width of the page. There are no margins, text, or other markings present.

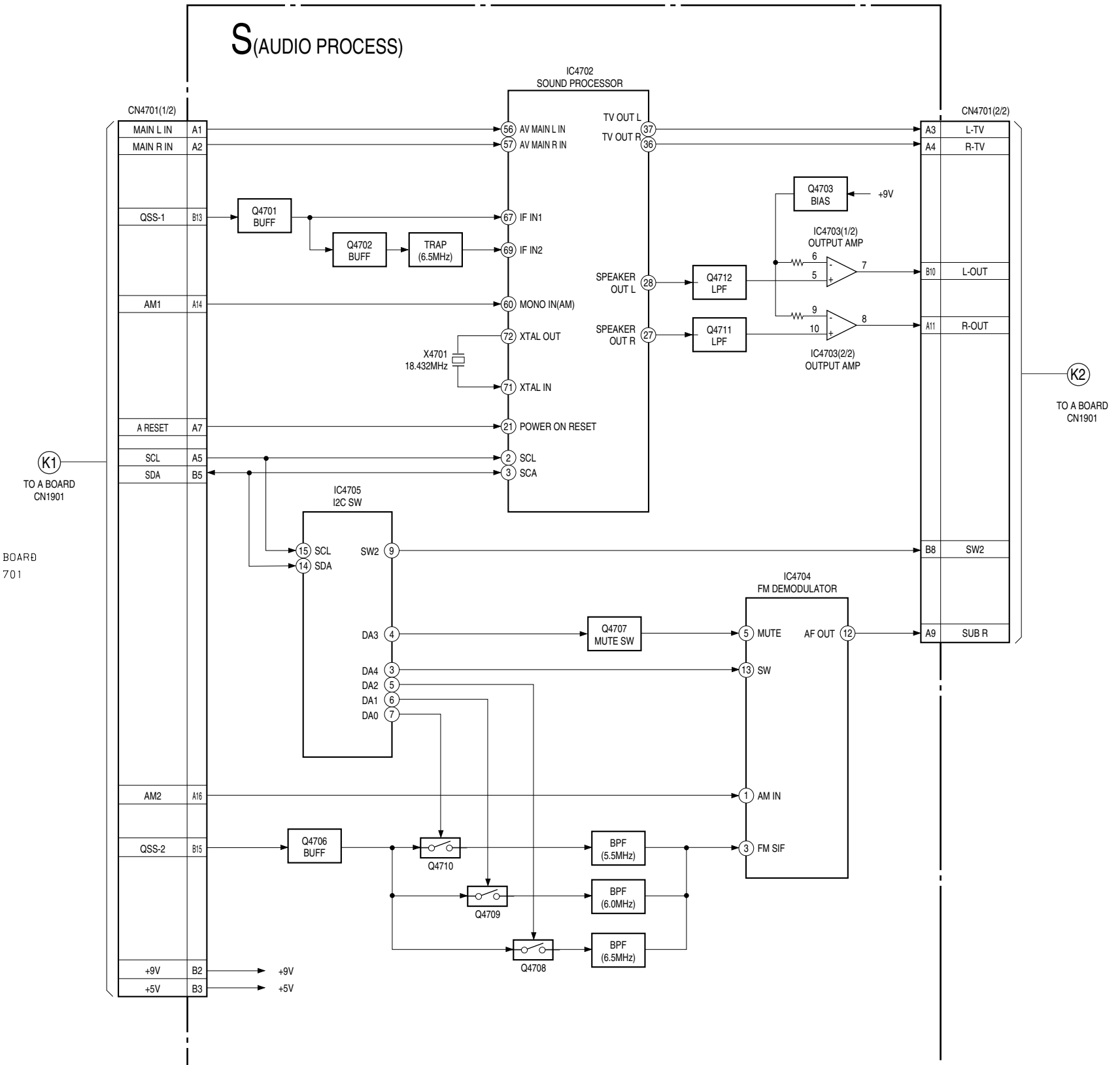
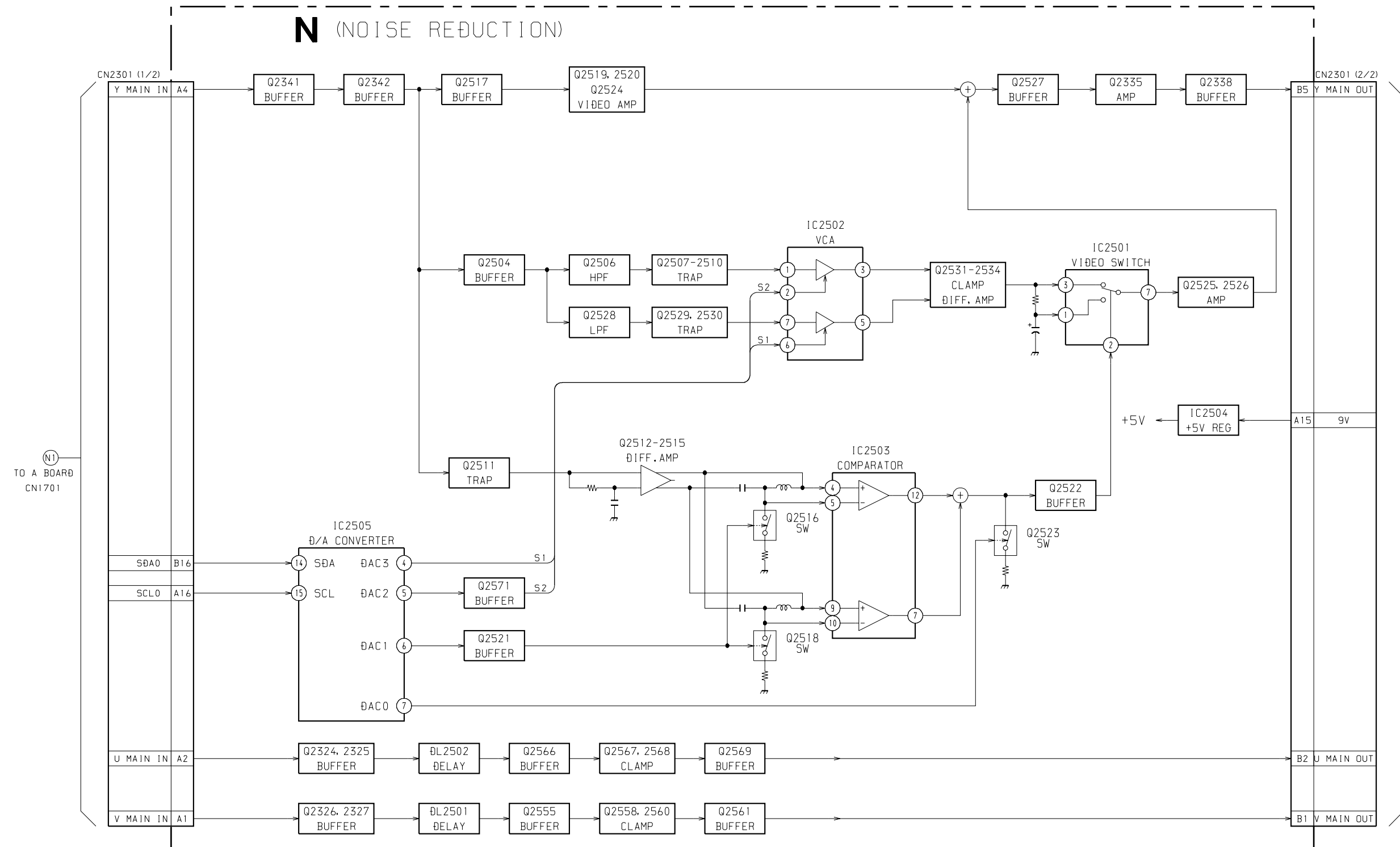
BLOCK DIAGRAM (2)



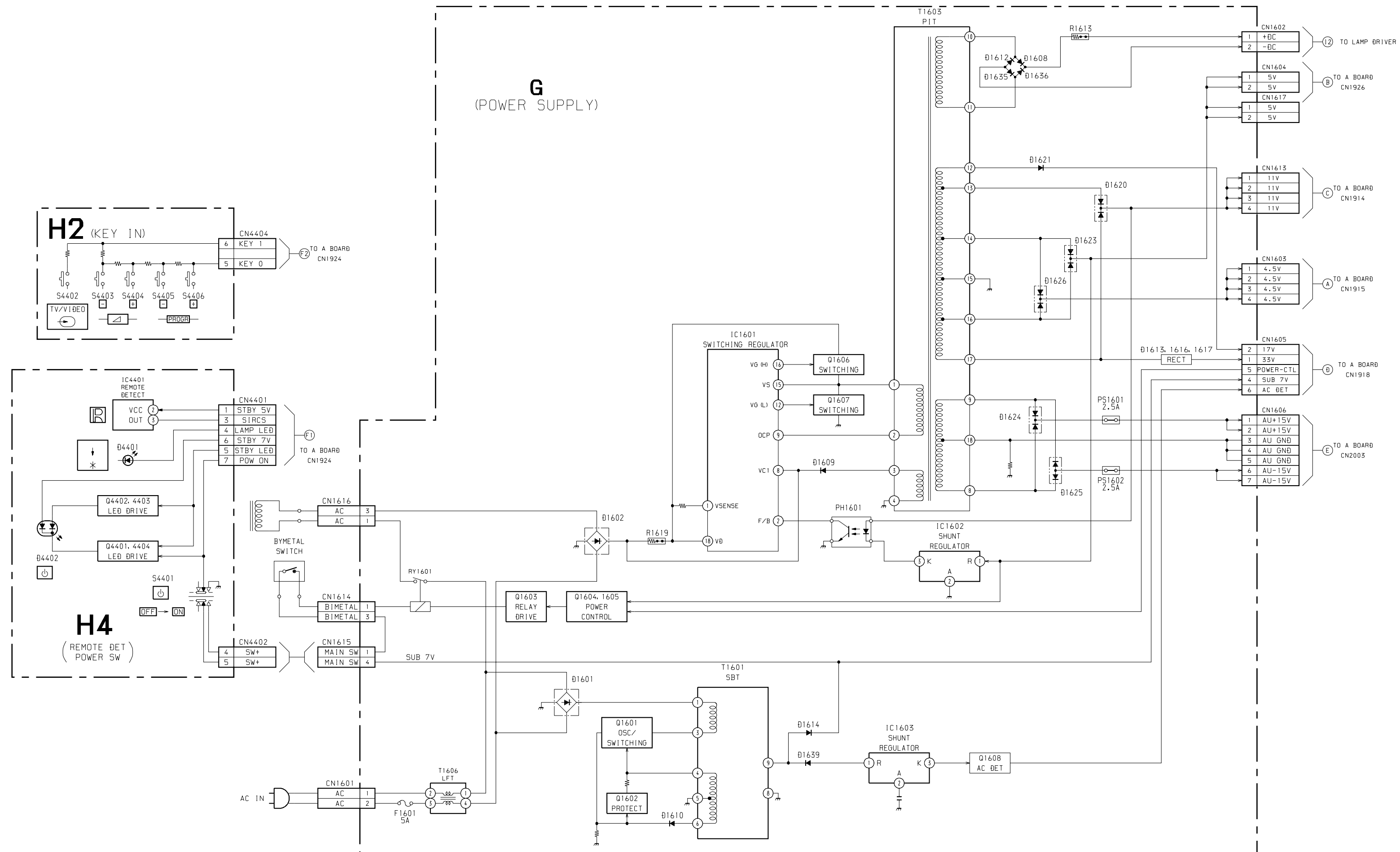
BLOCK DIAGRAM (3)



BLOCK DIAGRAM (5) (6)



BLOCK DIAGRAM (7)



[illegible]


Note:

- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.

$k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$

- Indication of resistance, which does not have one for rating electrical power, is as follows.

- : nonflammable resistor.

-  : fusible resistor.

- ☐: panel designation and adjustment for repair
- All variable and adjustable resistors have character

- $\frac{1}{\text{earth}}$: earth-chassis.

related adjustment.

< >: SECAM

- Readings are taken with a 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.

tolerances.

• — : B+ line

(Actual measured value may be different)

- Circled numbers are waveform references.

RESISTOR : RN METAL FILM

: FUSE NONFLAMMABLE FUSIBLE

:RS	NONFLAMMABLE METAL OXIDE
:RB	NONFLAMMABLE CEMENT

COIL : LF-8L MICRO INDUCTOR

:PS STYRENE
:PP POLYPROPYLENE

:MPS METALIZED POLYESTER
:MPB METALIZED POLYPROPYLENE

: ALT HIGH TEMPERATURE

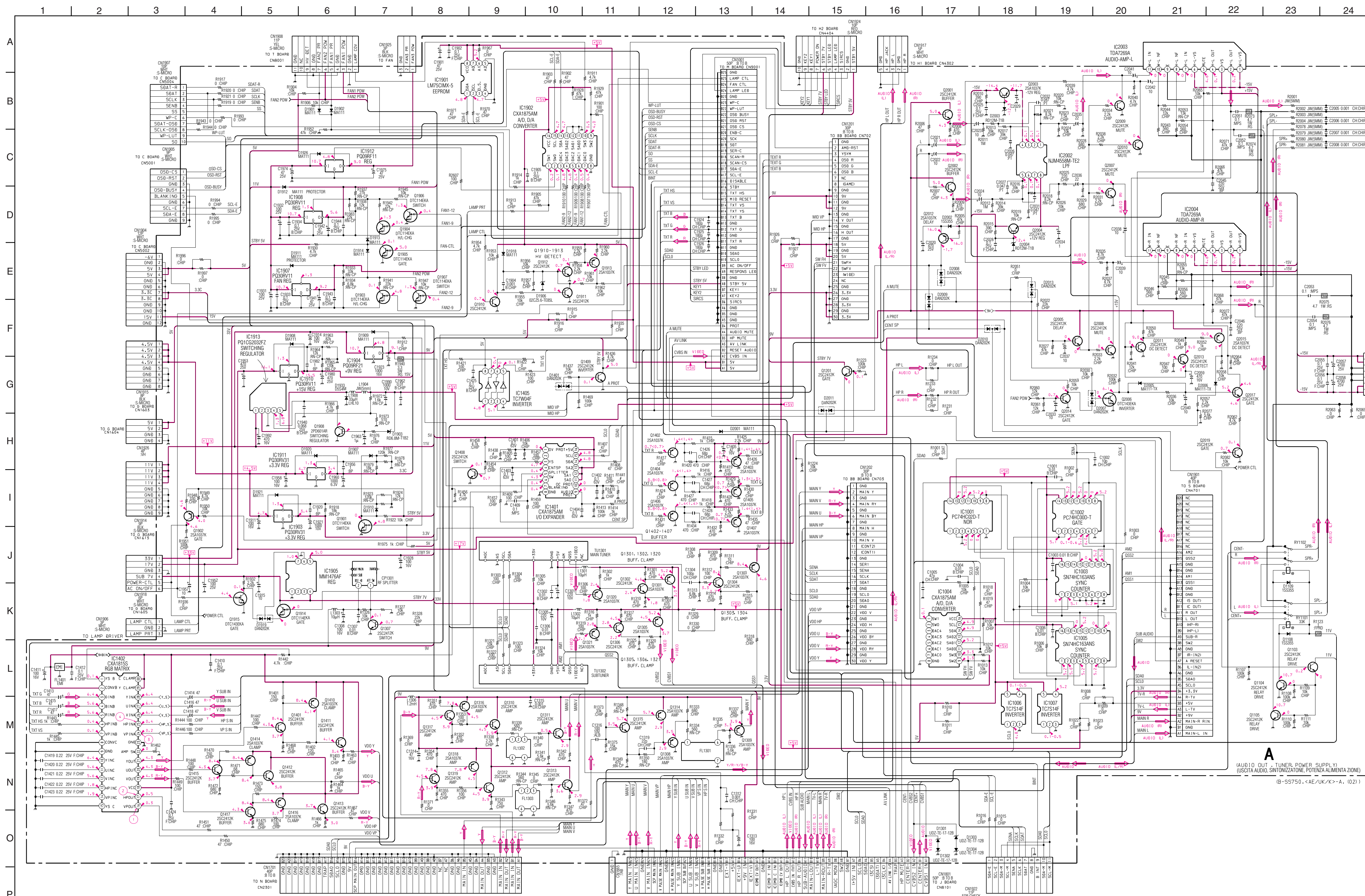
Terminal name of semiconductors in silk screen printed circuit (*)

Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
(1)	Transistor		Collector Base Emitter	
(2)	Transistor		Collector Base Emitter	
(3)	Diode		Cathode Anode	
(4)	Diode		Cathode Anode (NC)	
(5)	Diode		Cathode Anode (NC)	
(6)	Diode		Common Anode Cathode	
(7)	Diode		Common Anode Cathode	
(8)	Diode		Common Anode Anode	
(9)	Diode		Common Anode Anode	
(10)	Diode		Common Cathode Cathode	
(11)	Diode		Common Cathode Cathode	
(12)	Diode		Anode Cathode Anode Cathode Anode Cathode	
(13)	Transistor (FET)		Drain Source Gate	
(14)	Transistor (FET)		Drain Source Gate	

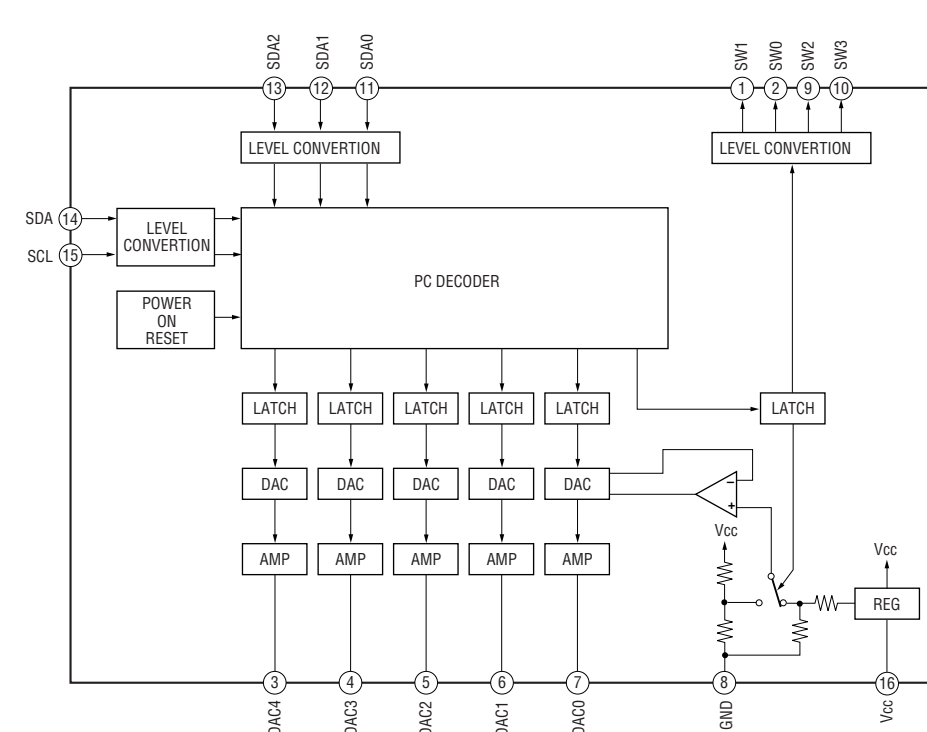
(Chip semiconductors that are not actually used are included.)

Ver 1

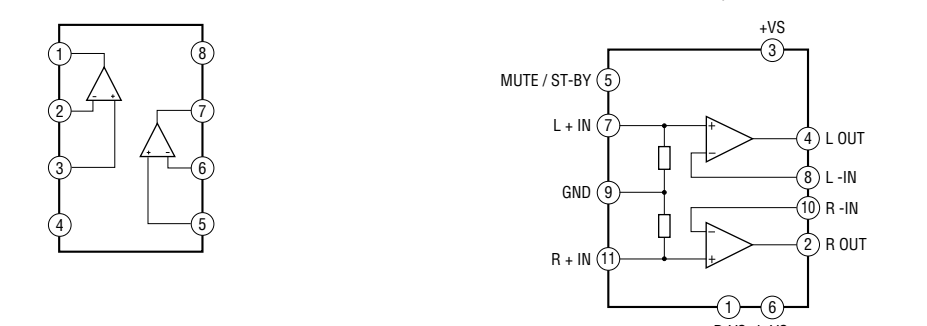


Schematic diagram

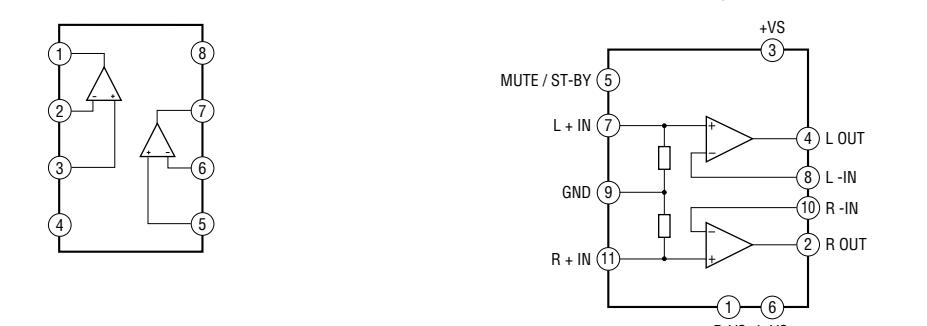
A board →



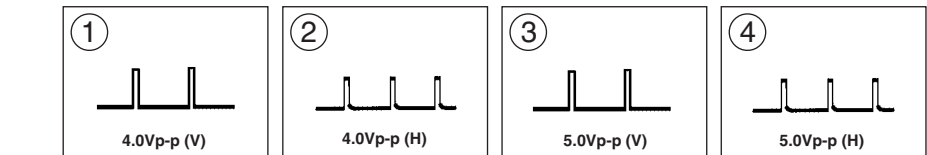
A BOARD : IC2002 NJM4558M

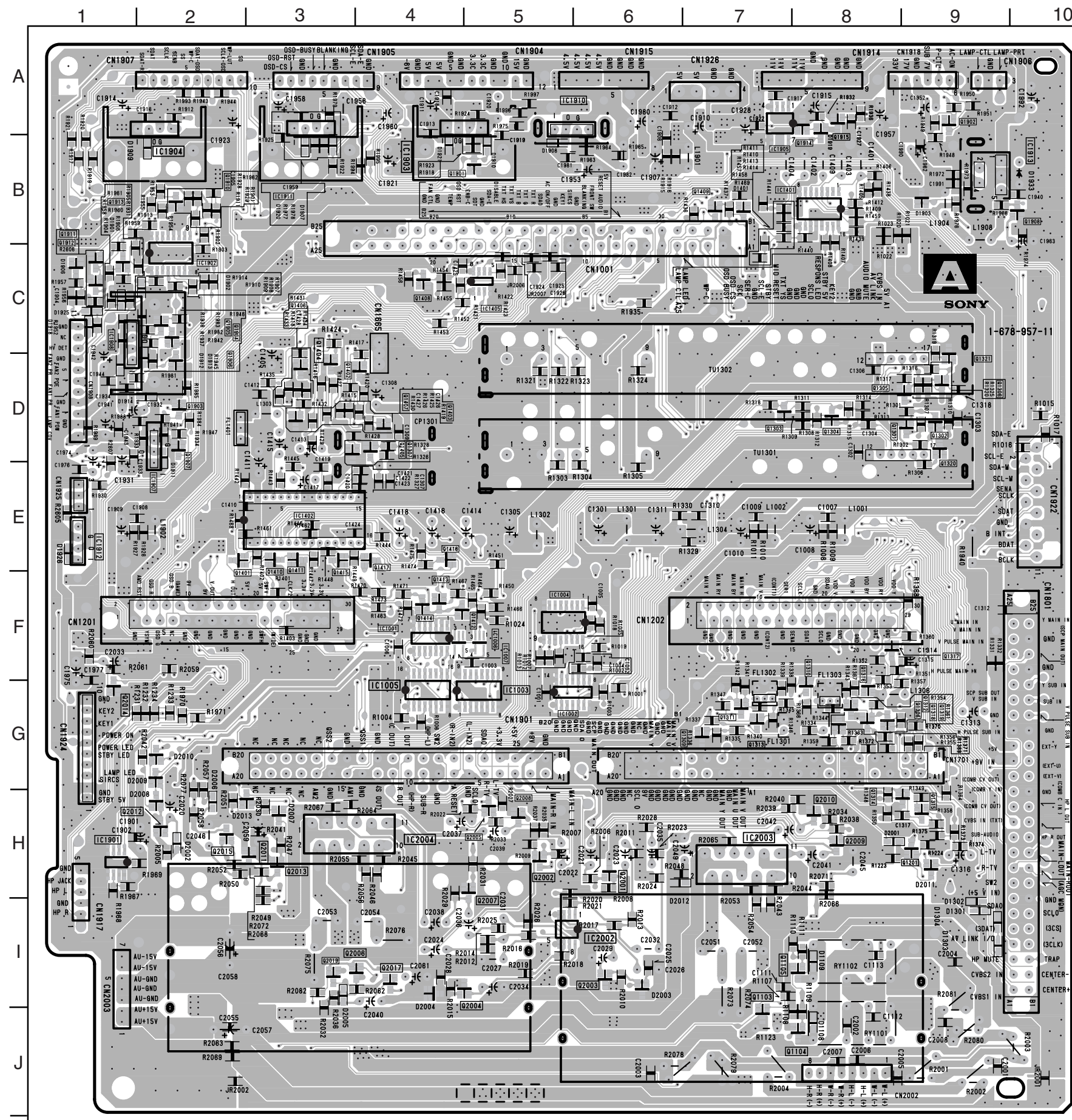
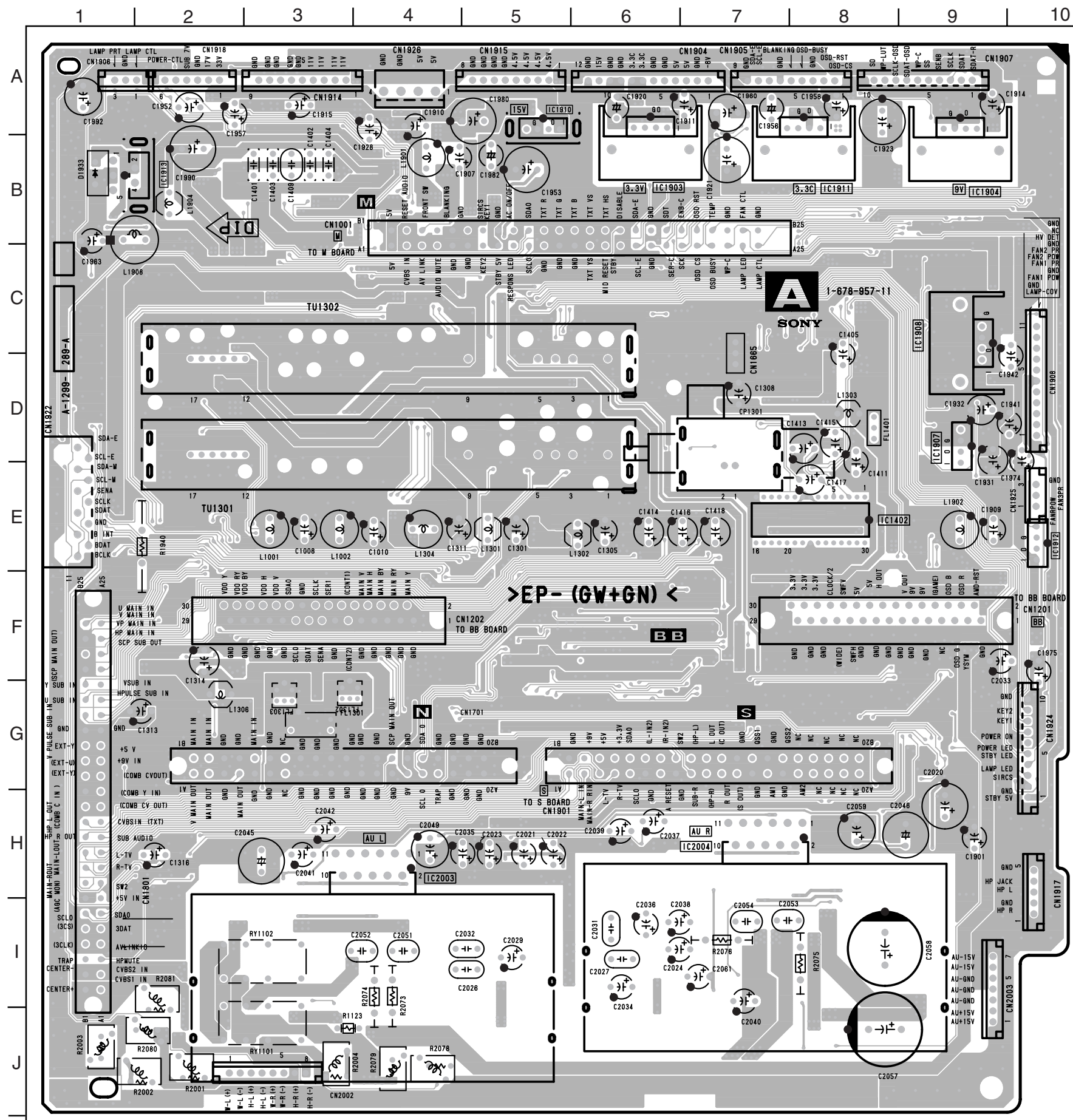


A BOARD : IC2003, 2004 TDA7269A



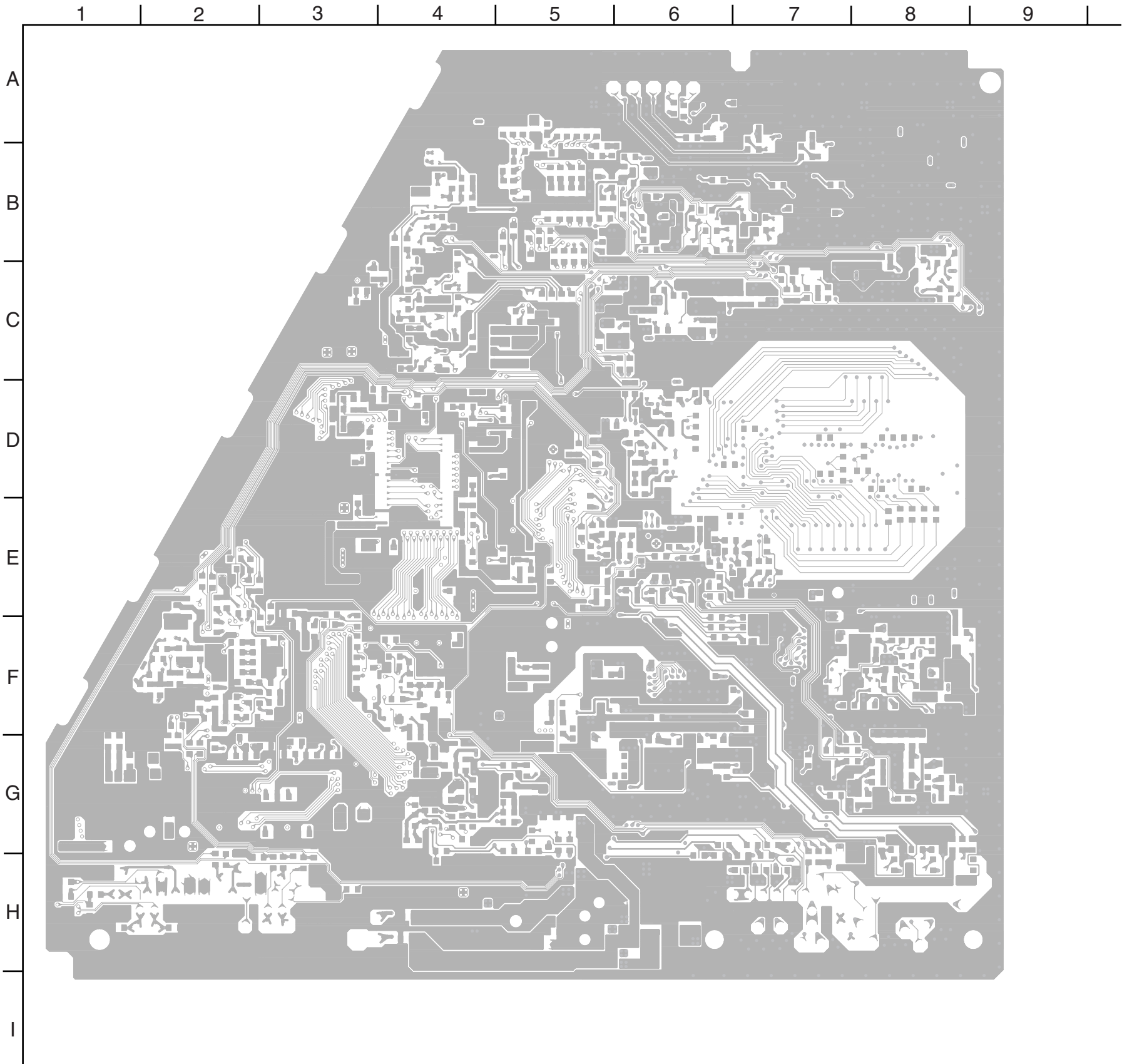
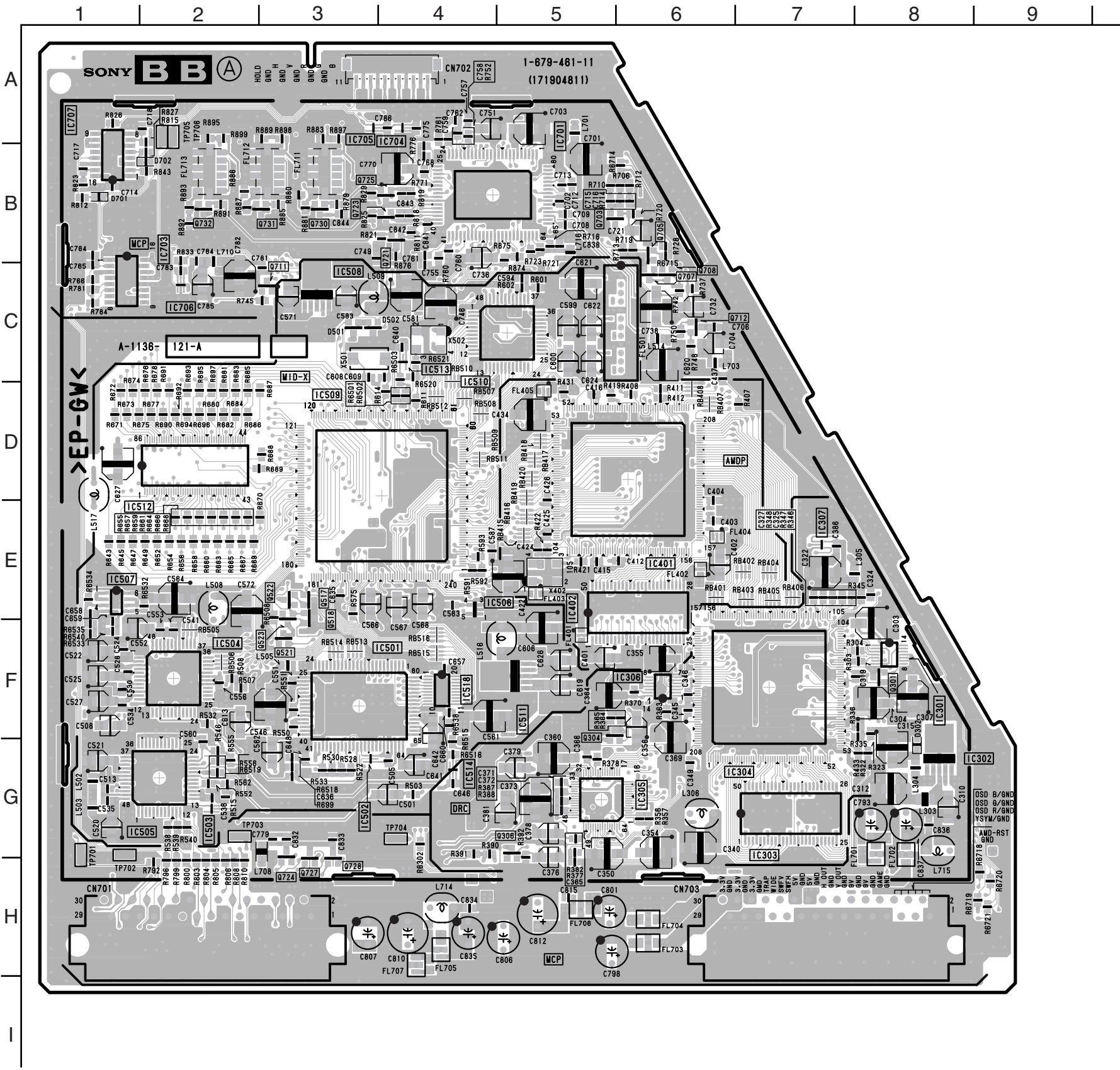
- A BOARD WAVEFORMS





A BOARD

DIODE			Q1320	D-9	IC1904	B-9	B-2
L	R	*					
D1108	J-8	③	Q1321	D-9	IC1905	B-9	B-7
D1109	J-8	③	Q1401	E-1	IC1907	D-9	E-2
D1301	I-9	③	Q1402	D-3	IC1908	C-9	C-1
D1302	I-9	③	Q1403	D-4	IC1910	A-5	A-5
D1303	I-9	③	Q1404	D-3	IC1911	B-8	B-3
D1304	I-9	③	Q1405	D-4	IC1912	E-10	E-1
D1401	B-7	③	Q1406	C-3	IC1913	B-2	B-10
D1901	B-1	③	Q1407	D-4	IC2002	I-6	
D1902	C-2	③	Q1408	C-4	IC2003	H-4	H-7
D1903	B-9	③	Q1409	B-7	IC2004	H-7	H-4
D1906	C-1	④	Q1410	E-3			
D1907	B-3	③	Q1411	G-7			
D1908	B-5	③	Q1412	F-4			
D1909	B-2	③	Q1413	F-4			
D1910	B-5	③	Q1414	E-3			
D1911	C-2	③	Q1415	E-4			
D1912	D-2	③	Q1416	E-4			
D1913	D-2	③	Q1901	B-4			
D1914	D-1	③	Q1902	A-9			
D1918	C-1	③	Q1903	D-2			
D1919	A-8	③	Q1904	C-2			
D1920	B-3	③	Q1905	C-2			
D1921	B-4	③	Q1906	D-2			
D1926	E-1	③	Q1907	D-2			
D1933	B-1	③	Q1908	B-10			
D2001	H-8	③	Q1910	B-2			
D2002	H-2	③	Q1911	B-1			
D2003	I-6	③	Q1912	B-1			
D2004	I-4	③	Q1913	B-1			
D2005	I-3	③	Q1914	A-8			
D2006	H-2	③	Q1915	A-8			
D2007	H-3	③	Q2001	H-6			
D2008	H-2	③	Q2002	H-5			
D2009	G-2	③	Q2003	I-6			
D2010	G-2	③	Q2004	I-5			
D2011	H-3	③	Q2005	H-5			
D2013	H-2	③	Q2006	I-3			
TRANSISTOR			Q2007	H-5			
L	R	*	Q2008	H-5			
Q501	D-2	①	Q2009	H-8			
Q1103	I-7	①	Q2010	H-8			
Q1104	J-8	①	Q2011	H-3			
Q1105	I-7	①	Q2012	H-2			
Q1201	H-9	①	Q2013	H-3			
Q1301	D-8	①	Q2014	G-1			
Q1302	D-9	①	Q2015	H-2			
Q1303	D-7	①	Q2017	I-4			
Q1304	D-8	①	Q2019	I-3			
Q1305	D-8	①	IC				
Q1306	D-7	①	L	R			
Q1307	D-4	①	IC501	E-10	E-1		
Q1308	G-9	①	IC1001		F-4		
Q1309	G-7	①	IC1002		G-5		
Q1310	F-8	①	IC1003		G-5		
Q1311	G-7	①	IC1004		F-5		
Q1312	G-9	①	IC1005		G-4		
Q1313	G-7	①	IC1006		F-5		
Q1314	H-8	①	IC1007		F-5		
Q1315	H-9	①	IC1401		B-8		
Q1316	G-8	①	IC1402		E-8		
Q1317	F-9	①	IC1405		C-5		
Q1318	G-9	①	IC1901		H-1		
Q1319	G-9	①	IC1902		C-2		
			IC1903	B-6	B-4		



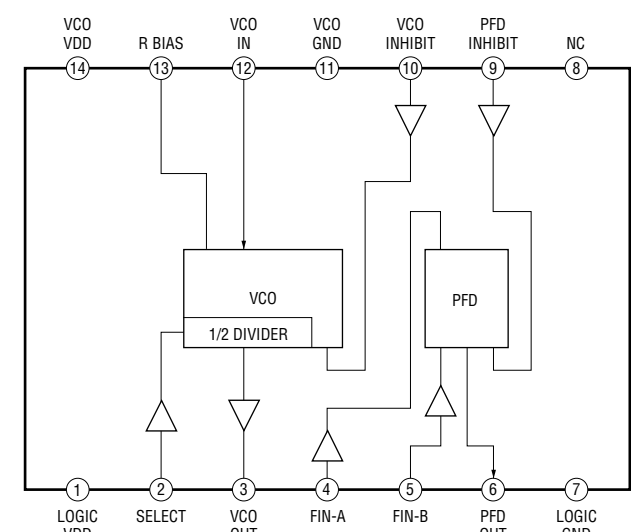
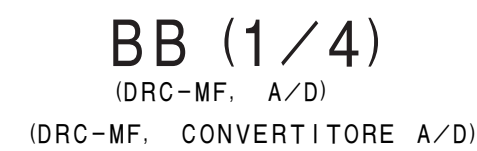
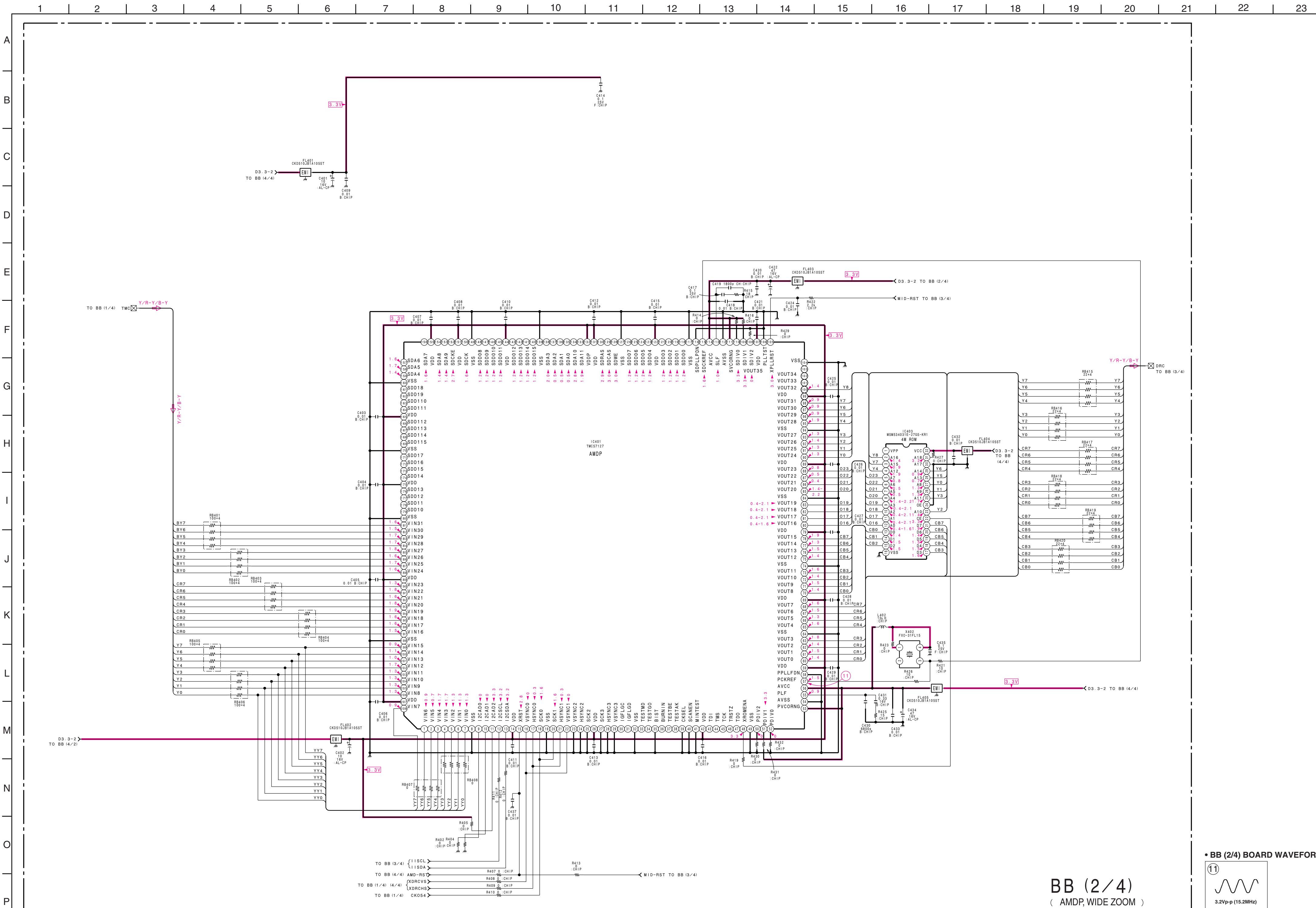


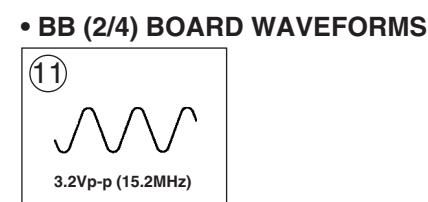
Figure 1 displays ten example waveforms, numbered 1 through 10, each showing a different signal type and its corresponding unit:

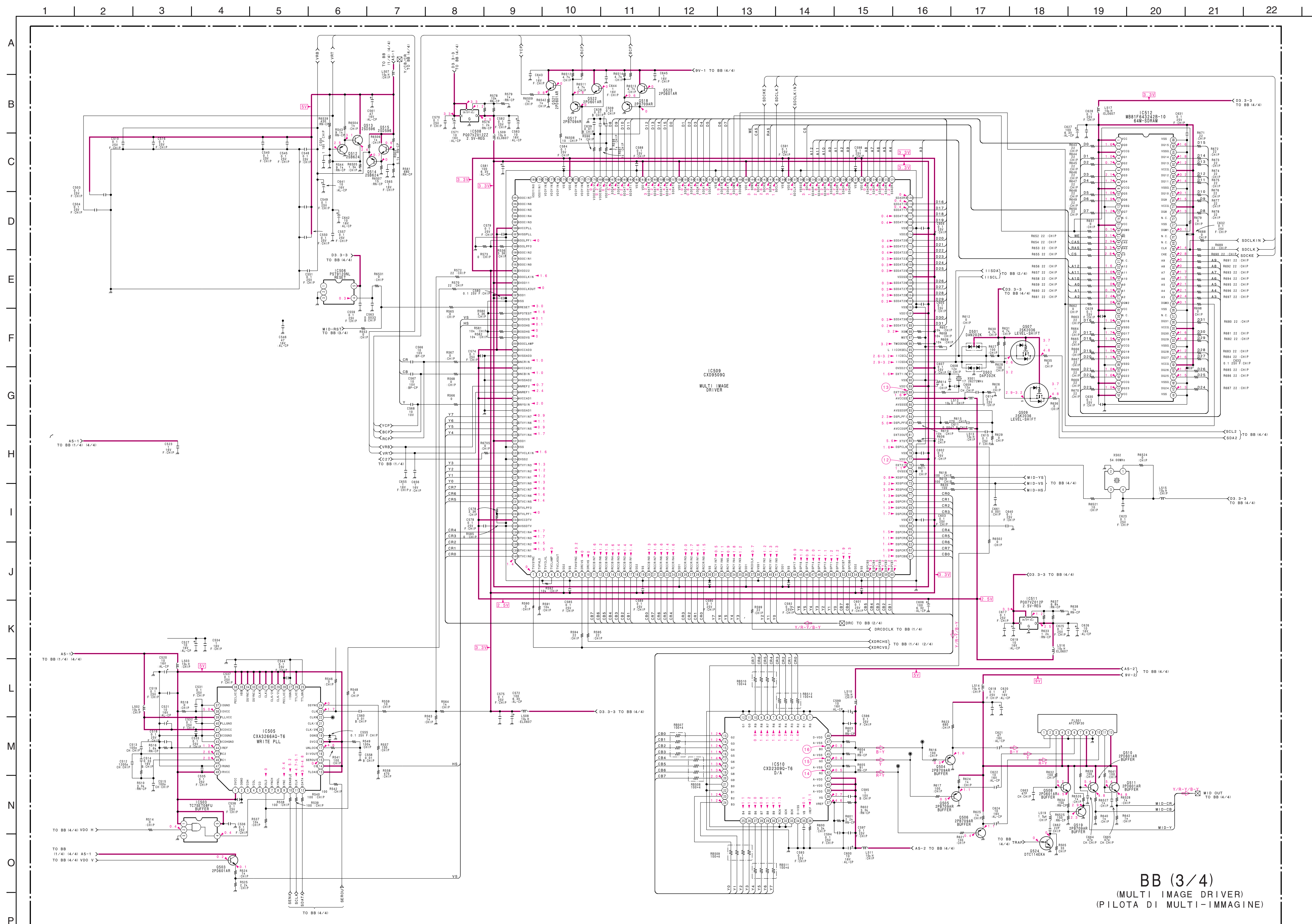
- 1. 1.3Vp-p (H)
- 2. 1.3Vp-p (H)
- 3. 1.3Vp-p (H)
- 4. 3.2Vp-p (13.5MHz)
- 5. 3.1Vp-p (H)
- 6. 3.2Vp-p (V)
- 7. 2.6Vp-p (54.3MHz)
- 8. 3.6Vp-p (H)
- 9. 4.2Vp-p (H)
- 10. 4.2Vp-p (H)





BB (2/4)
(AMDP, WIDE ZOOM)





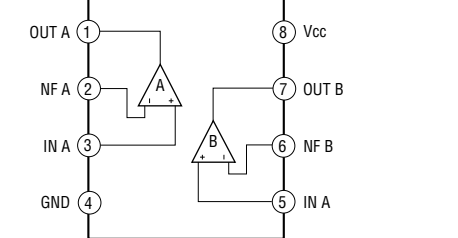
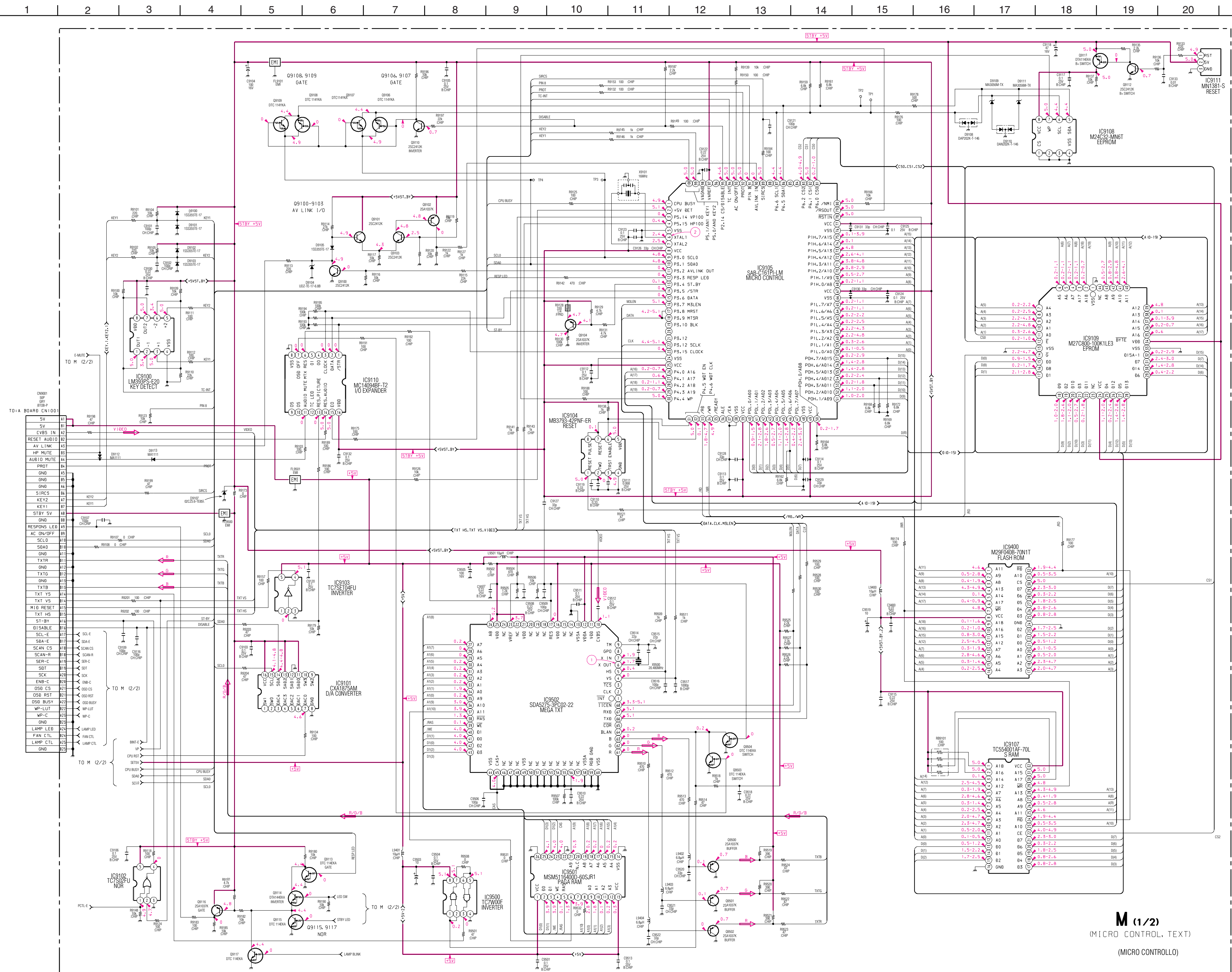
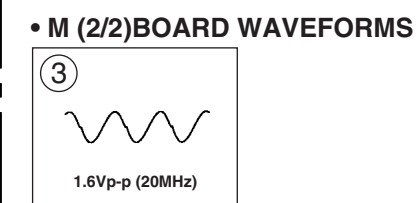


Figure 10 shows two sine waves. The first wave, labeled 1, has an amplitude of 2.2Vp-p and a frequency of 20.48MHz. The second wave, labeled 2, has an amplitude of 1.1Vp-p and a frequency of 16MHz.



M (1/2)
(MICRO CONTROL, TEXT)
(MICRO CONTROLLO)



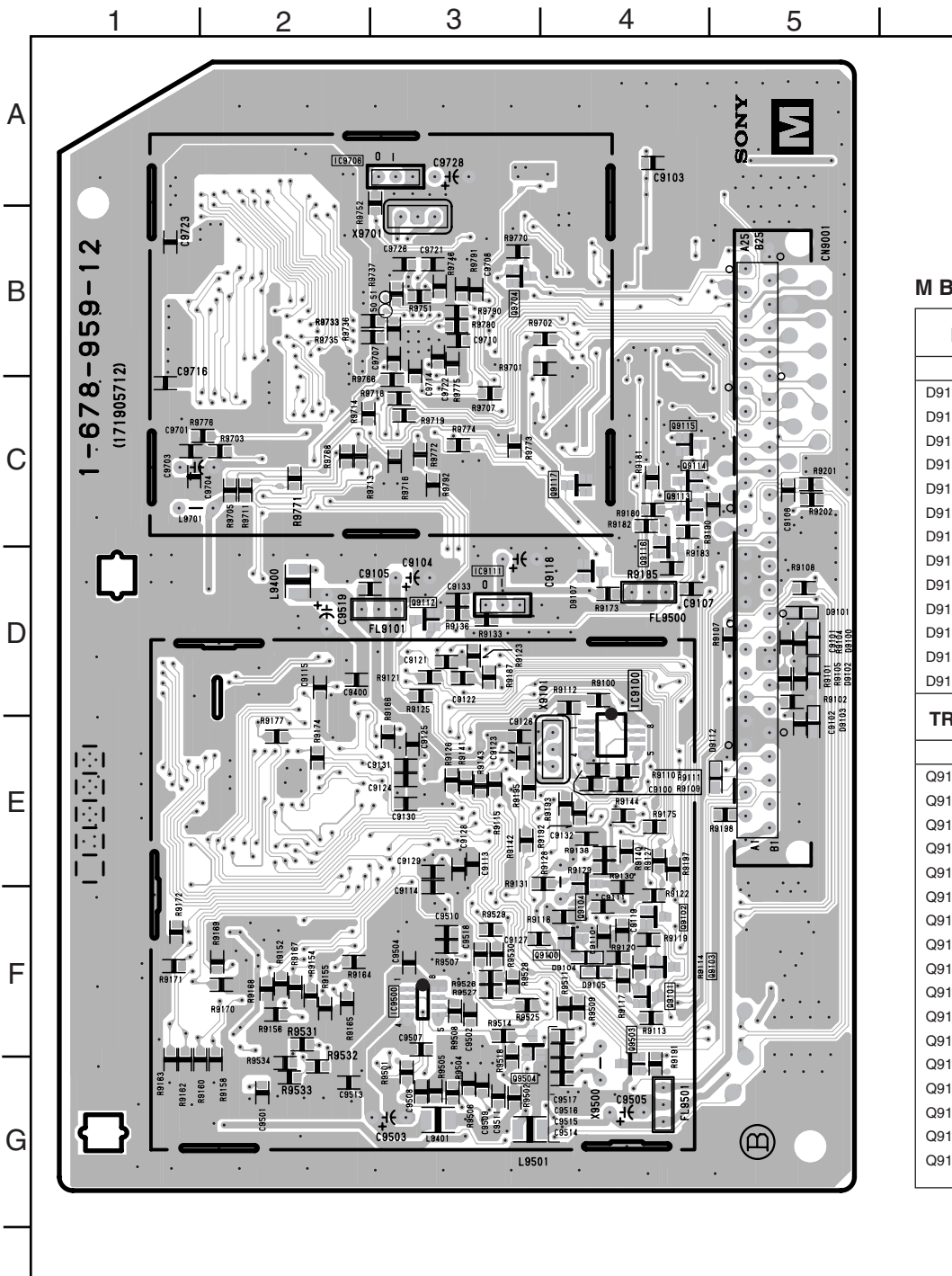
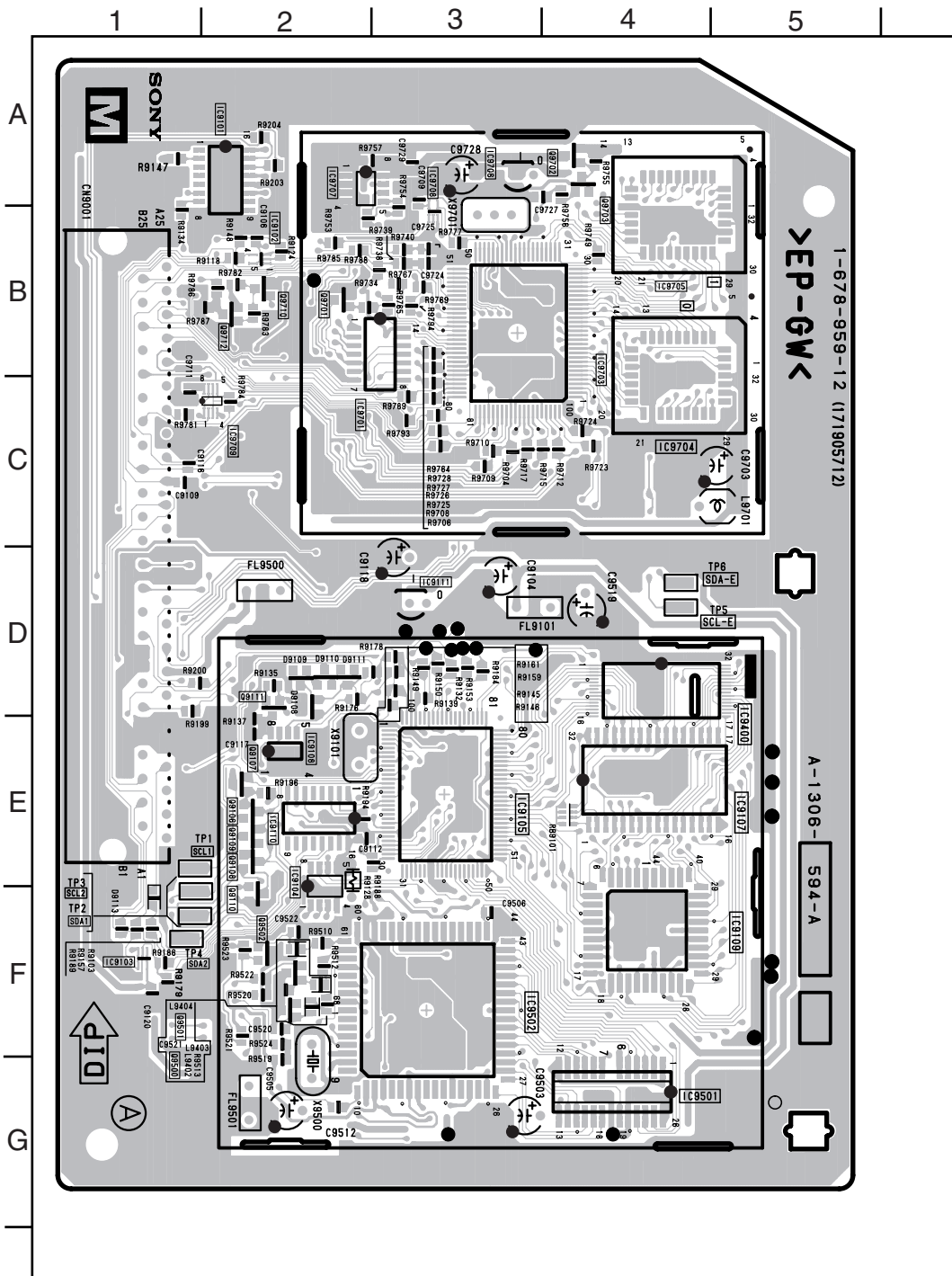
M(1/2)

[MICRO CONTROL, TEXT]

M(2/2)

[MEMORY CONTROL]

– M Board –

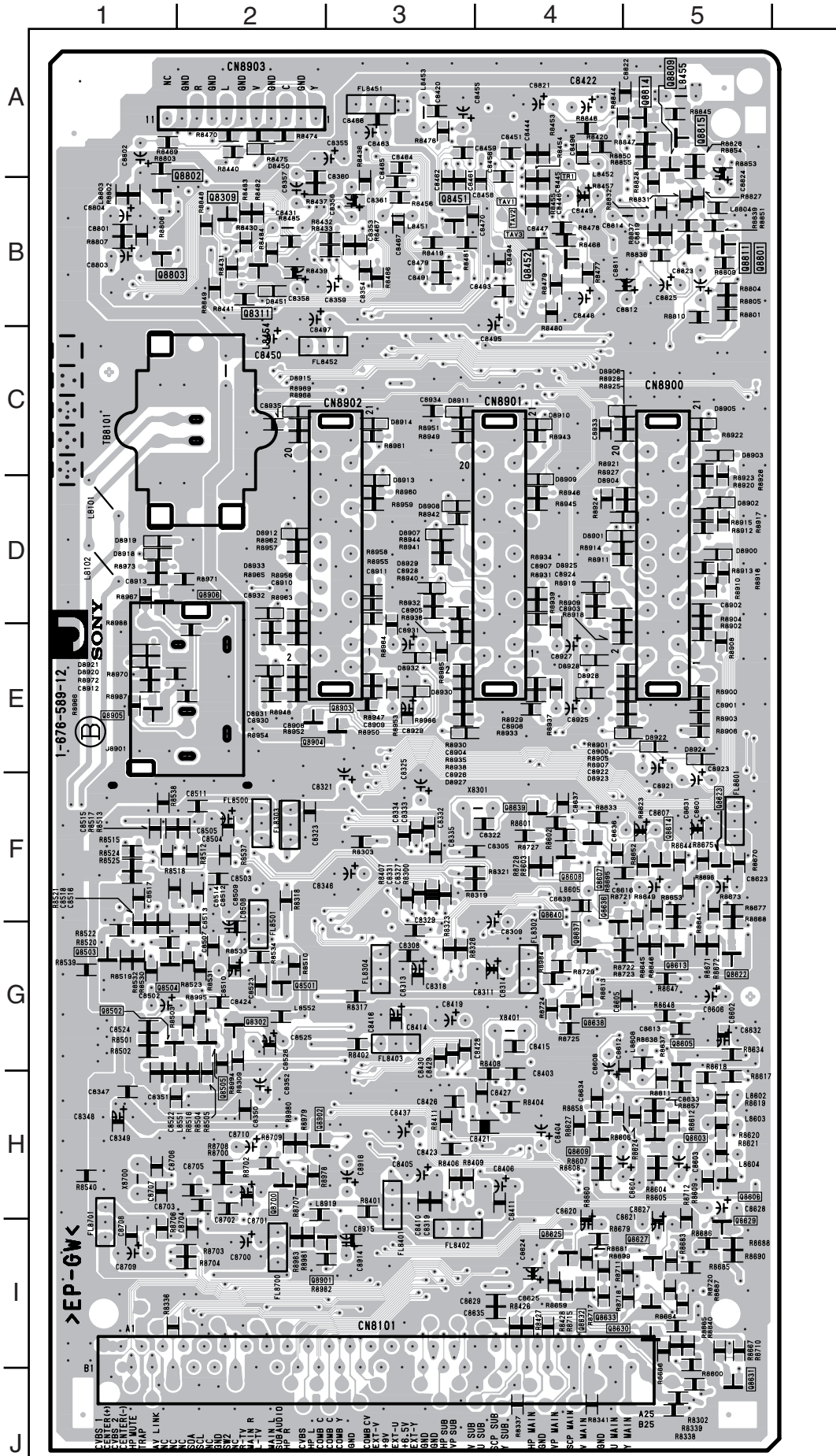
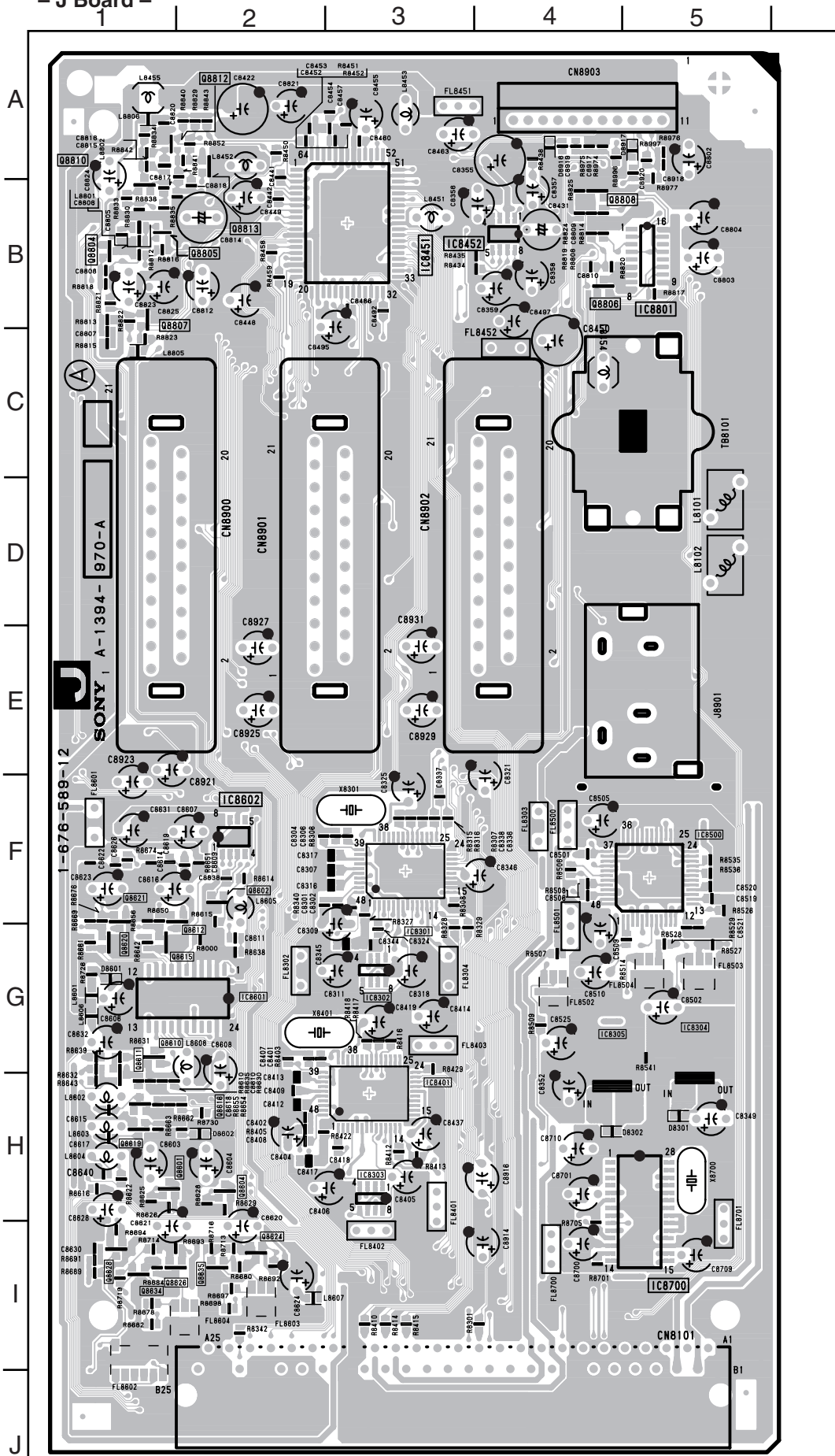


M BOARD

DIODE			
L	R	*	
D9100	D-5	③	Q9500 F-1 ②
D9101	D-5	③	Q9501 F-1 ②
D9102	D-5	③	Q9502 F-2 ②
D9103	E-5	③	Q9503 F-4 ①
D9104	F-4	③	Q9504 G-3 ①
D9105	F-4	③	Q9701 B-2 ②
D9107	D-4	③	Q9702 A-4 ②
D9108	D-2	①	Q9703 B-4 ②
D9109	D-2	⑤	Q9704 B-3 ①
D9110	D-2	⑨	Q9710 B-2 ②
D9111	D-2	⑤	Q9712 B-2 ②
D9112	E-5	③	IC
D9113	F-1	③	
TRANSISTOR			
L	R	*	
Q9100	F-4	①	IC9100 D-4
Q9101	F-4	①	IC9101 A-2
Q9102	F-4	①	IC9102 B-2
Q9103	F-4	①	IC9103 F-1
Q9104	F-4	①	IC9104 E-2
Q9106	E-2	②	IC9105 E-3
Q9107	E-2	②	IC9107 E-5
Q9108	E-2	②	IC9108 E-2
Q9109	E-2	②	IC9109 F-5
Q9110	F-2	②	IC9110 E-2
Q9111	D-2	②	IC9111 D-3 D-3
Q9112	D-3	①	IC9400 D-5
Q9113	C-4	①	IC9500 F-3
Q9114	C-4	①	IC9501 G-4
Q9115	C-4	①	IC9502 F-3
Q9116	D-4	①	IC9701 C-2
Q9117	C-4	①	IC9703 B-4

L ; component side
R ; conductor side

— J Board —



J BOARD

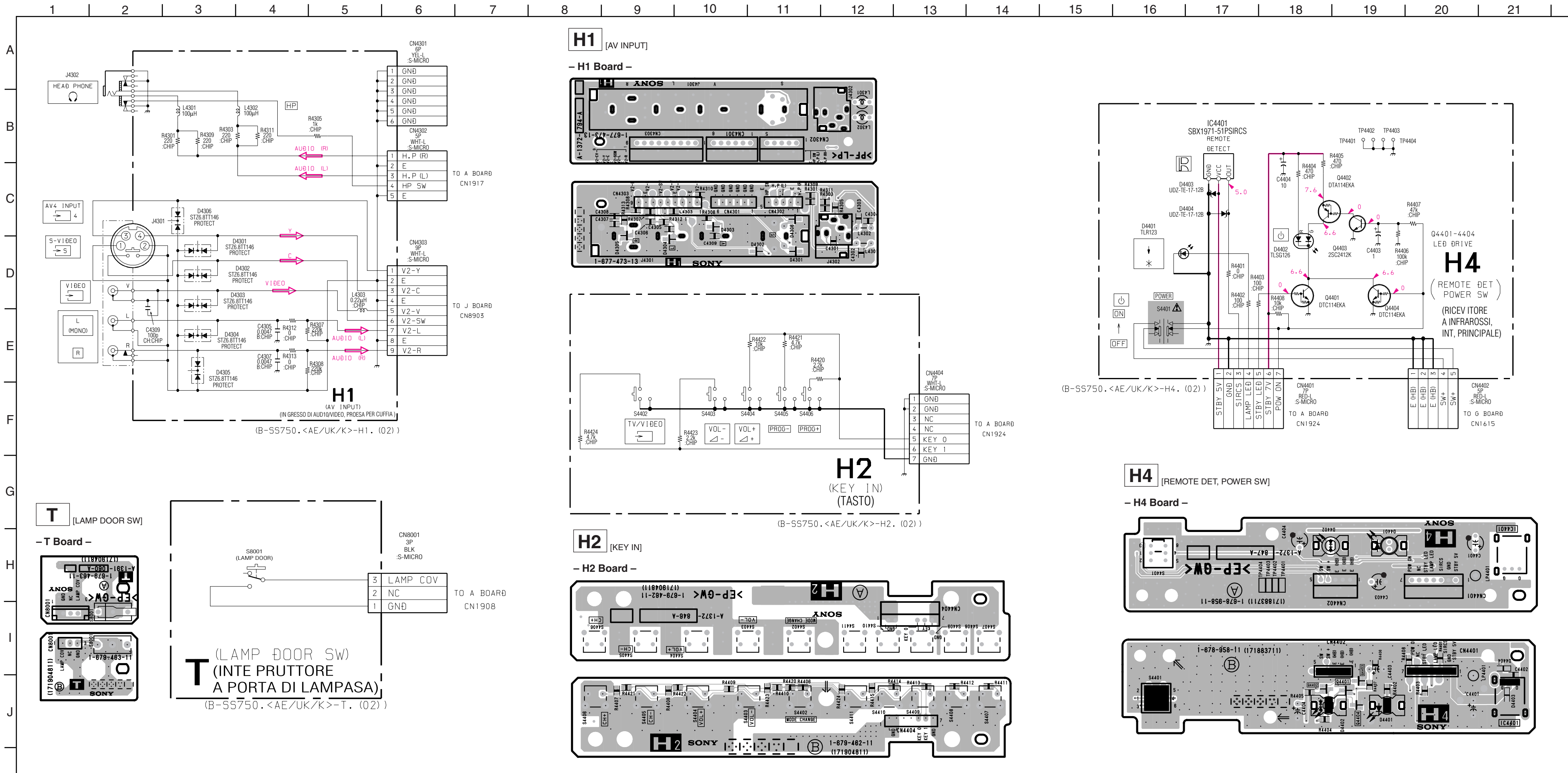
DIODE				
L	R	*		
D8301	H-5	③	Q8613	G-5 ①
D8302	H-5	③	Q8614	F-5 ①
D8450	A-2	③	Q8615	G-2 ②
D8451	B-2	③	Q8616	H-2 ②
D8601	G-1	③	Q8619	H-1 ②
D8900	D-5	③	Q8620	G-1 ②
D8901	D-4	③	Q8621	F-1 ②
D8902	D-5	③	Q8622	G-5 ①
D8903	C-5	③	Q8623	F-5 ①
D8904	D-4	③	Q8624	I-2 ②
D8905	C-5	③	Q8625	I-4 ①
D8906	C-4	③	Q8626	I-2 ②
D8907	D-3	③	Q8627	I-5 ①
D8908	D-3	③	Q8628	I-1 ②
D8909	D-4	③	Q8629	I-5 ①
D8910	C-4	③	Q8630	I-4 ①
D8911	C-3	③	Q8631	J-5 ①
D8912	D-2	③	Q8632	I-4 ①
D8913	D-3	③	Q8633	I-4 ①
D8914	C-3	③	Q8634	I-1 ②
D8915	C-2	③	Q8635	I-2 ②
D8916	A-4	③	Q8636	F-4 ①
D8917	A-5	③	Q8637	G-4 ①
D8918	D-1	③	Q8638	G-4 ①
D8919	D-1	③	Q8639	F-4 ①
D8920	E-1	③	Q8640	F-4 ①
D8921	E-1	③	Q8700	H-2 ①
D8922	E-5	③	Q8801	B-5 ①
D8923	F-4	③	Q8802	A-2 ①
D8924	E-5	③	Q8803	B-1 ①
D8925	D-4	③	Q8804	B-4 ②
D8926	E-4	③	Q8805	B-2 ⑦
D8927	F-3	③	Q8806	B-4 ②
D8928	E-4	③	Q8807	B-1 ②
D8929	D-3	③	Q8808	B-4 ②
D8930	E-3	③	Q8809	A-5 ①
D8931	E-2	③	Q8810	A-1 ②
D8932	E-3	③	Q8811	B-5 ①
D8933	D-2	③	Q8812	A-2 ⑦
			Q8813	B-2 ②
			Q8814	A-5 ①
			Q8815	A-5 ①
TRANSISTOR				
L	R	*		
Q8302	G-2	①	Q8901	I-2 ①
Q8309	B-2	①	Q8902	H-2 ①
Q8311	B-2	①	Q8903	E-3 ①
Q8451	B-3	①	Q8904	E-2 ①
Q8452	B-4	①	Q8905	E-1 ①
Q8501	G-2	①	Q8906	D-2 ①
Q8502	G-1	①		
Q8503	G-1	①	IC	
Q8504	G-1	①	L	R
Q8505	H-2	①	IC8301	G-3
Q8601	H-2	②	1C8302	G-3
Q8602	F-2	②	1C8303	H-3
Q8603	H-5	①	1C8304	G-5
Q8604	H-2	②	1C8305	G-4
Q8605	G-5	①	1C8401	H-3
Q8606	H-5	①	1C8451	B-3
Q8607	F-4	①	1C8452	B-3
Q8608	F-4	①	1C8500	F-5
Q8609	H-4	①	1C8601	G-2
Q8610	G-1	②	1C8602	F-2
Q8611	G-1	②	1C8700	I-5
Q8612	G-2	②	1C8801	B-5

L ; component side
R ; conductor side





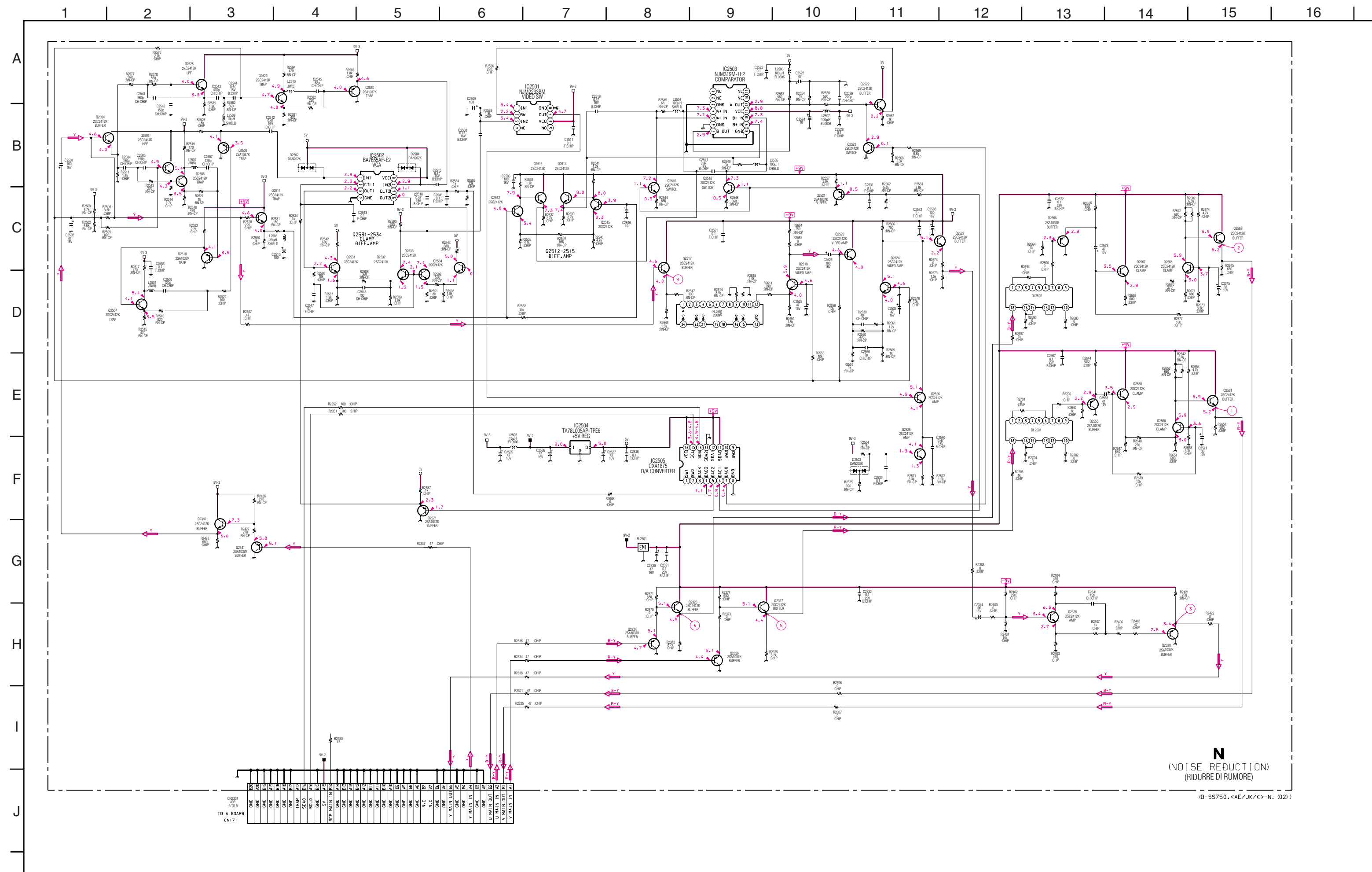
UB-SS750, <AE/UK/K>-J, (02)



The diagram illustrates the PC Decoder circuit. It features a central PC DECODER block. On the left, SDA (14) and SCL (15) are connected to LEVEL CONVERSION blocks, which interface with the PC DECODER. A POWER ON RESET block also provides input to the PC DECODER. The PC DECODER has five outputs, each connected to a LATCH block, which in turn connects to a DAC and an AMP. The outputs of these DACs are labeled DAC4 (3), DAC3 (4), DAC2 (5), DAC1 (6), and DAC0 (7). A sixth LATCH block is connected to a switch controlled by SW1, SW0, SW2, and SW3, which is also connected to a REG block. The circuit is powered by Vcc and GND.

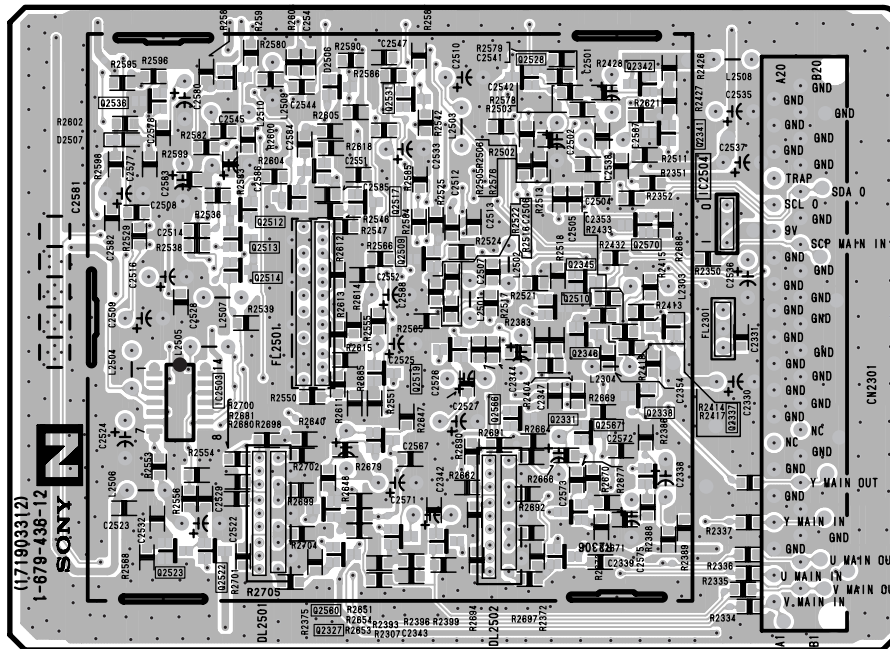
Figure 1 displays six examples of waveforms, numbered 1 through 6, illustrating different signal characteristics. Each waveform is shown within a rectangular frame.

- Waveform 1: A high-frequency signal with a peak-to-peak amplitude of 1.2Vp-p (H).
- Waveform 2: A high-frequency signal with a peak-to-peak amplitude of 1.2Vp-p (H).
- Waveform 3: A low-frequency signal with a peak-to-peak amplitude of 1.0Vp-p (H).
- Waveform 4: A low-frequency signal with a peak-to-peak amplitude of 1.0Vp-p (H).
- Waveform 5: A high-frequency signal with a peak-to-peak amplitude of 1.2Vp-p (H).
- Waveform 6: A high-frequency signal with a peak-to-peak amplitude of 1.2Vp-p (H).



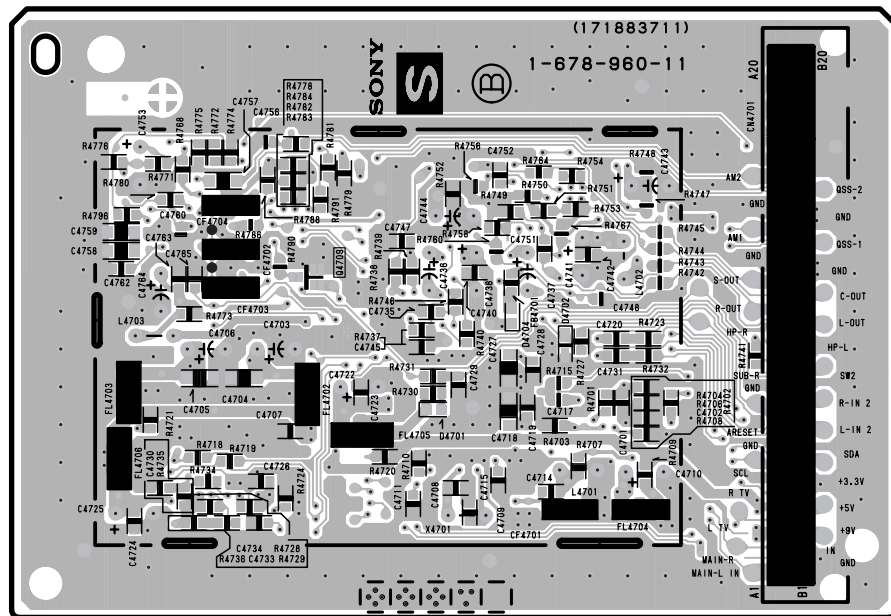
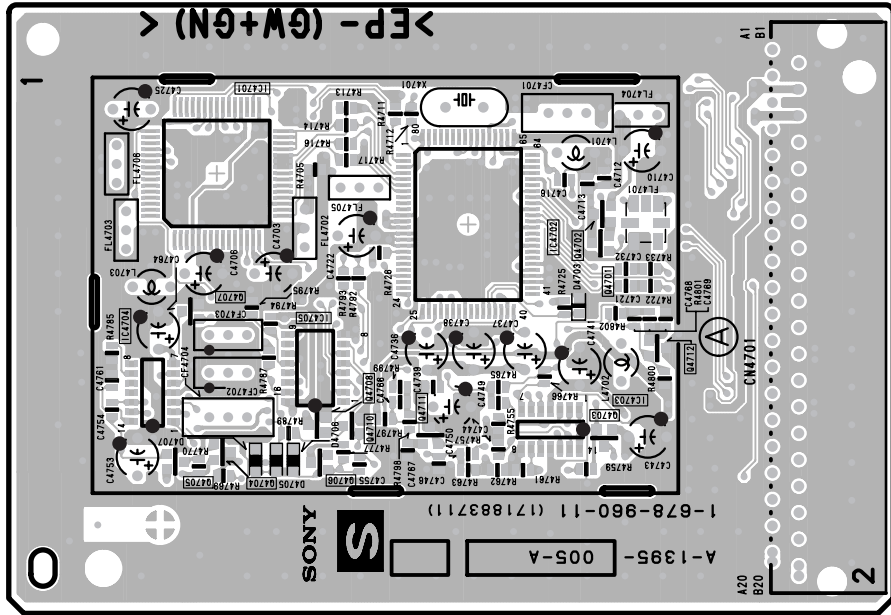
[NOISE REDUCTION]

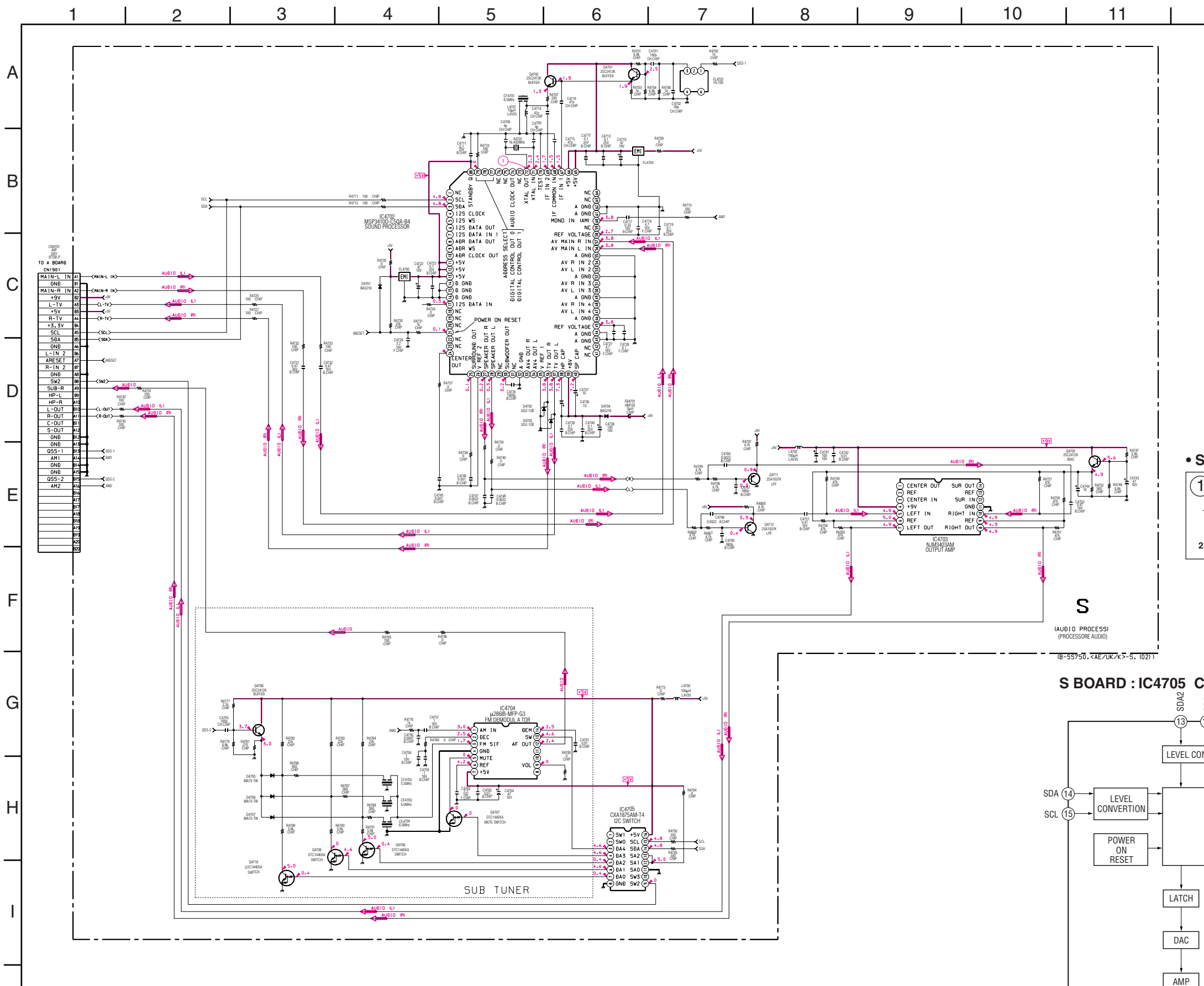
– N Board –



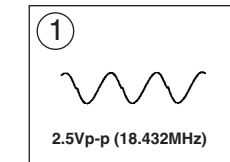
S [AUDIO PROCESS]

– S Board –

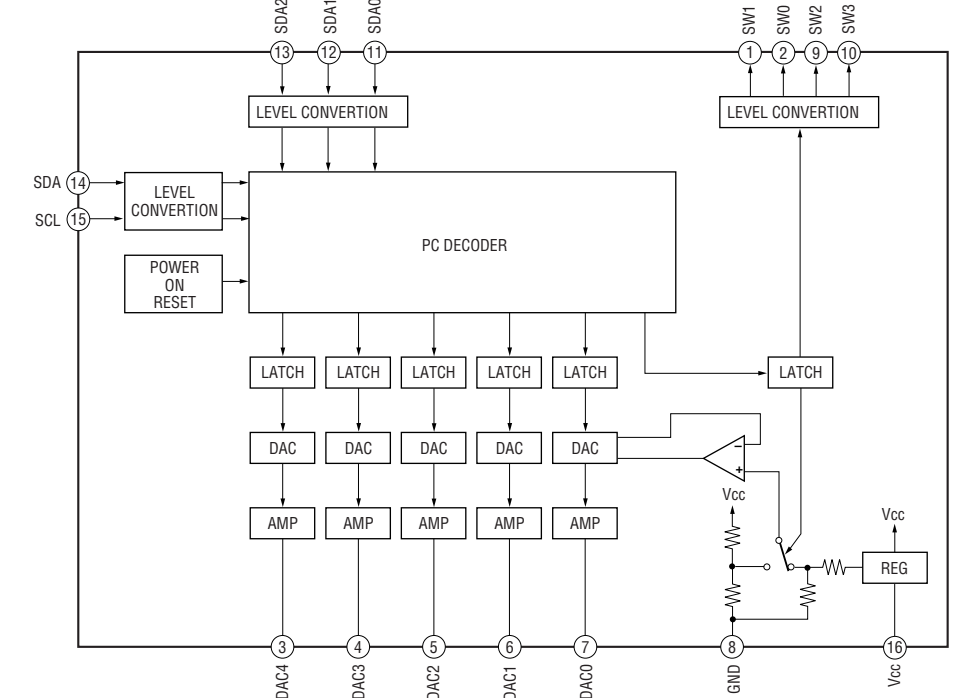




S BOARD WAVEFORMS



S BOARD : IC4705 CXA1875AM

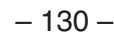


Schematic diagram

← S board

Schematic diagram

G board →

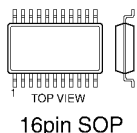


DIODE				D1630	D-4	③
				D1631	C-6	③
L	R	*		D1632	F-6	③
D1108		J-8	③	D1633	C-1	C-9 -
D1601	D-3	D-6	-	D1634	C-2	C-8 -
D1602	B-2	B-7	-	D1635	G-7	G-3
D1603	D-5	D-6	④	D1636	G-7	G-3
D1604		D-4	③	D1637		F-6 ④
D1605	C-5	C-5	-	D1638		G-6 ③
D1606	D-4	D-4	④	D1639	C-7	C-3 -
D1607	F-3	F-6	-	D1640		C-2 ④
D1608	G-6	G-4	-	D1641		C-2 ③
D1609	F-4	F-6	-	D1642		C-2 ③
D1610	D-5	E-5	-			
D1611		F-6	④			
D1612	G-7	G-3	-			
D1613	D-7	D-2	-			
D1614	C-6	C-3	-			
D1615		F-7	④			
D1616	D-7	D-2	-			
D1617	D-7	D-2	-			
D1618		H-2	③			
D1619	H-2	H-2	④			
D1620	D-7	E-3	-			
D1621	F-8	F-2	-			
D1622	E-3	E-7	-			
D1623	F-7	F-3	-			
D1624	H-5	H-4	-			
D1625	G-5	G-5	-			
D1626	E-8	E-2	-			
D1627	G-7	G-7	④			
D1628	F-6	F-6	-			
D1629		D-4	③			

- 131 -

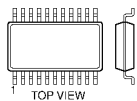
4-5. SEMICONDUCTORS

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T2CXA1875AM-T4
MC14538BFEL
SN74HC163ANS



16pin SOP

BA7655AF-E2
LM393PS-E20
LM75CIMX-5
M24C32-MN6T
MB3793-42PNF-ER
NJM4558M-T2
TC7W04FU-TE12L
TC7WT241FU(TE12R)
M24C08-MN6T
NJM2233BM(TE2)
TC7W00F(TE12R)
TC7W08F(TE12R)
TDA2822D013TR



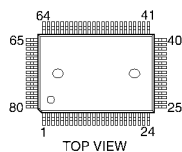
8pin SOP

CXA1815S



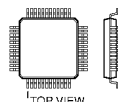
30pin DIP

CXA2101AQ



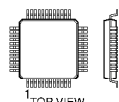
TOP VIEW

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CXA3266Q-T6
CXD2064Q-T6



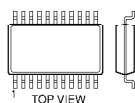
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CXA2149Q



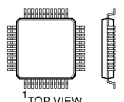
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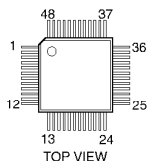
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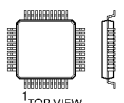
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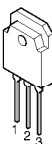
TOP VIEW

CXD9509AQ



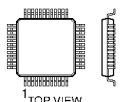
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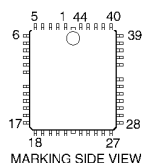
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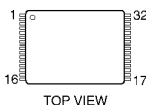
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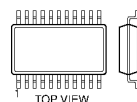
MARKING SIDE VIEW

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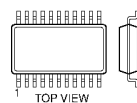
TOP VIEW

MB81F643242C-10FN



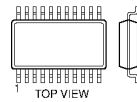
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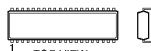
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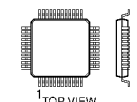
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MCZ3001D



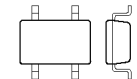
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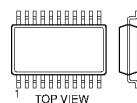
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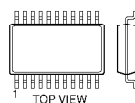
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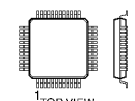
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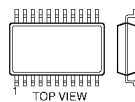
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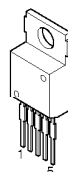
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PC74HC02D-T
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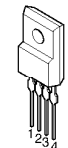
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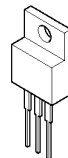
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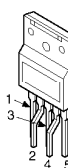


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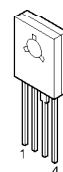


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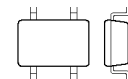
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PQ30RV31



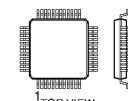
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TC7S14F(TE85R)
TC7SH00FU-TE85R
TC7SET00FU(TE85R)
TC7SET04FU(TE85R)
TC7SET08FU(TE85L)
TC7SH08FU-TE85R



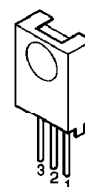
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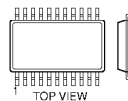
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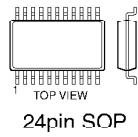
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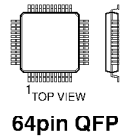


32pin SOP

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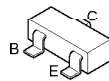
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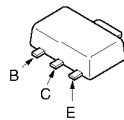
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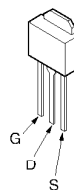
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2SB624-BV5
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2SC2412K-T-146-QR
2SD2114K
2SD596-DV5
DTA143EK
DTA144EKA-T146
DTC114EKA-T146
DTC114YKA-T146
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DTC144EKA-T146



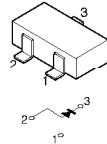
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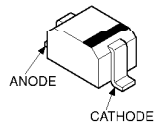
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02CZ5.6-TE85L
MA3056M-TX
RD12M-T1B
RD15M-T1B2
RD5.6M-T1B2
RD5.6M-T1B3
RD6.8M-T1B2



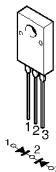
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DTZ-TT11-3.6
MA111-TX
MA113-(TX)
UDZ-TE-17-12B
UDZ-TE-17-3.9B
UDZ-TE-17-4.7B
UDZ-TE-17-6.8B
UDZS-TE17-8.2B



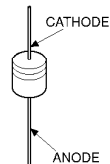
BAS216



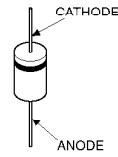
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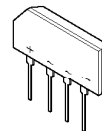
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D1NS4-TA2



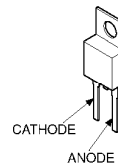
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D2S6MTA1



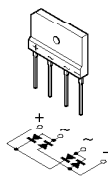
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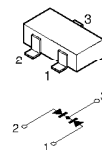
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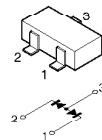
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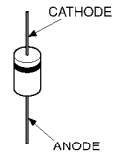
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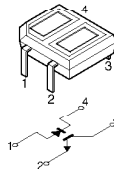
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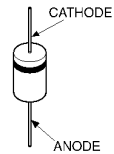
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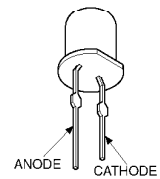
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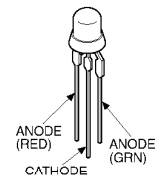
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UF4005PKG23



TLR123



TLSG126




SECTION 5

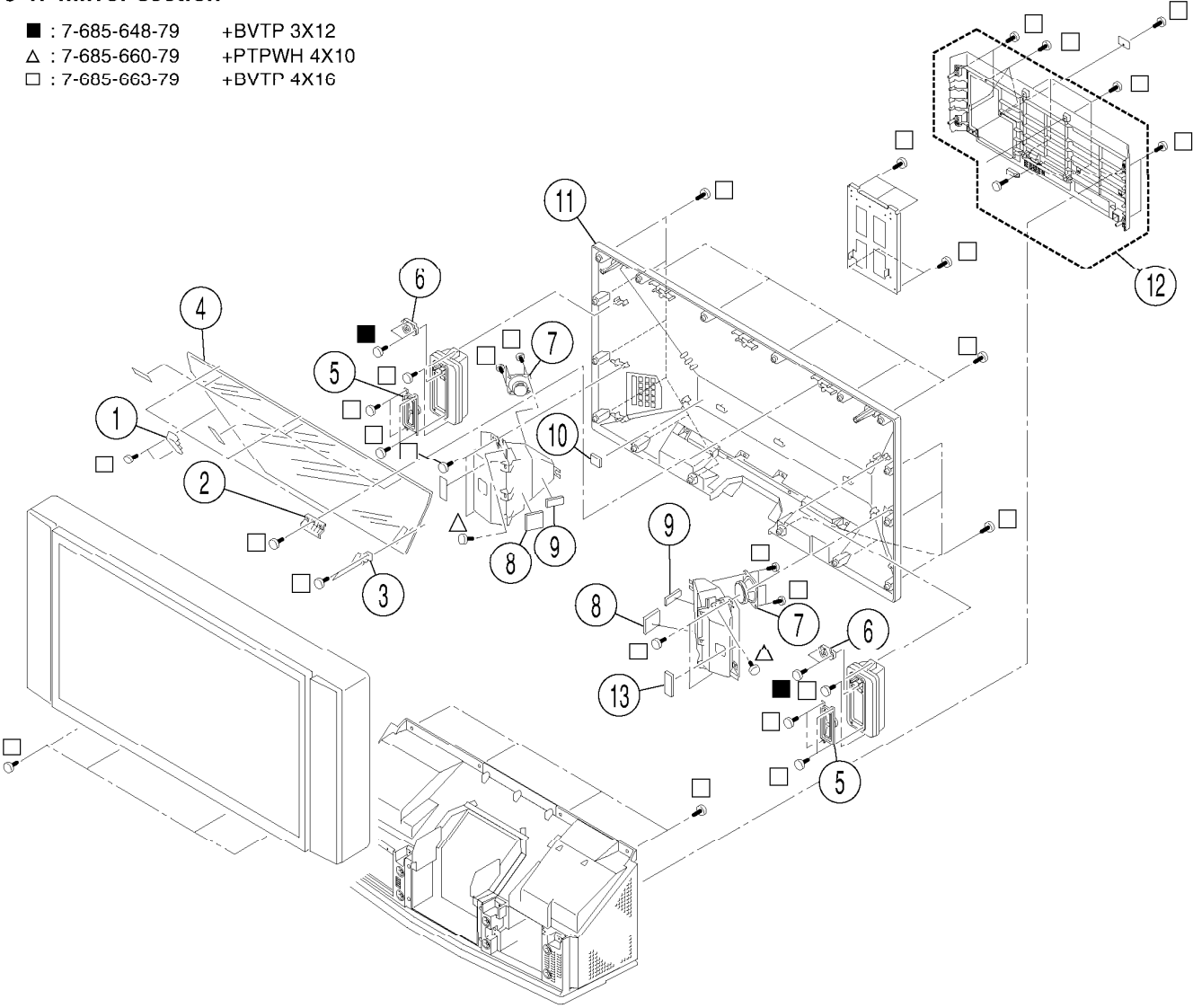
EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
 - The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

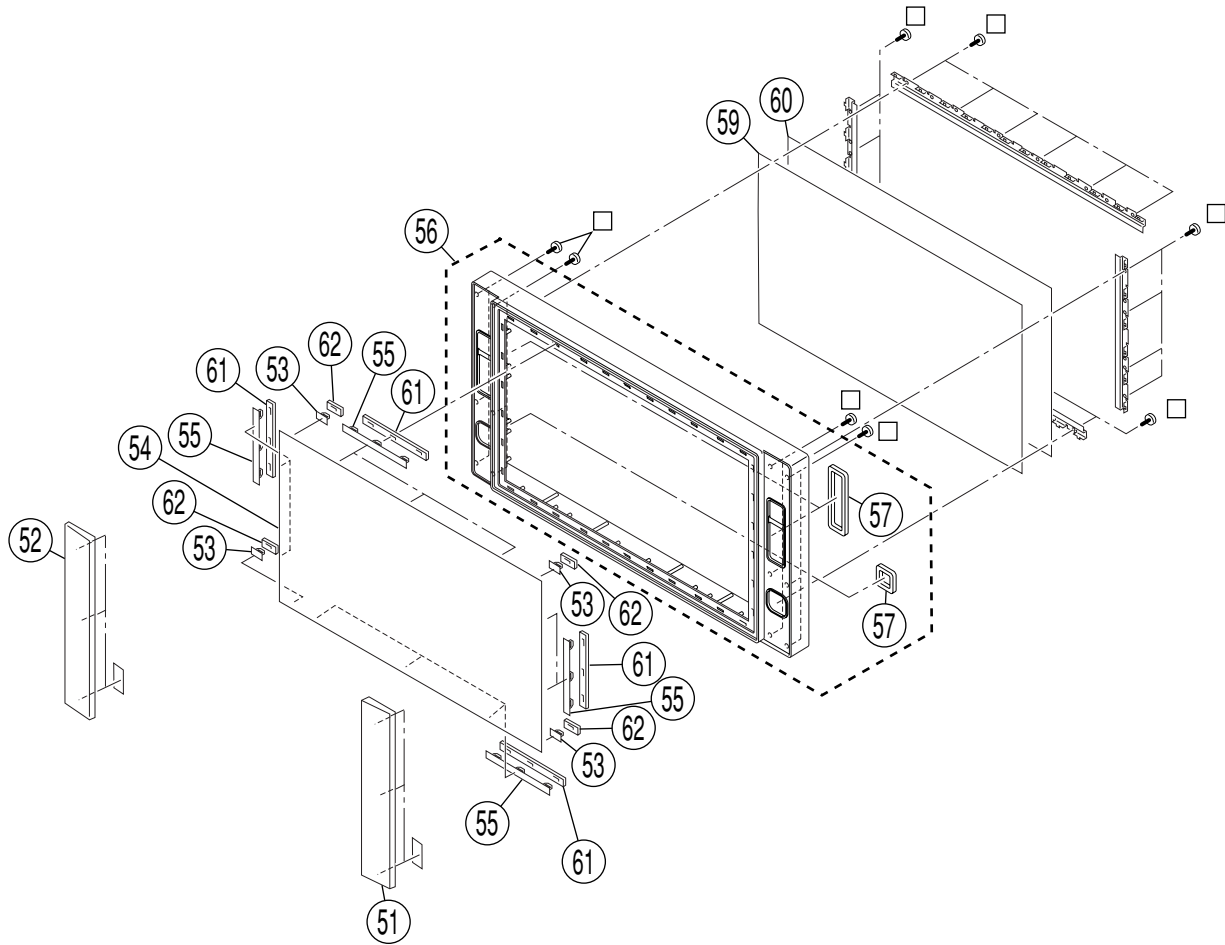
5-1. mirror section



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-077-752-01	HOLDER (L), MIRROR		7	1-529-714-11	SPEAKER (10cm)	
2	* 4-077-669-01	HOLDER (U), MIRROR		8	4-078-395-01	DAMPER (1)	
3	* 4-077-731-01	HOLDER (R), MIRROR		9	4-078-396-01	DAMPER (2)	
4	4-078-871-01	MIRROR (50)		10	4-078-847-01	CUSHION (HARNESS), SHIELD	
5	1-529-716-11	SPEAKER (13X7cm)		11	X-4038-216-1	COVER (50) ASSY, MIRROR	
6	1-529-715-11	SPEAKER (2cm)		12	X-4038-220-1	COVER ASSY, REAR	

5-2. SCREEN SECTION

□ : 7-685-663-79 +BVTP 4X16

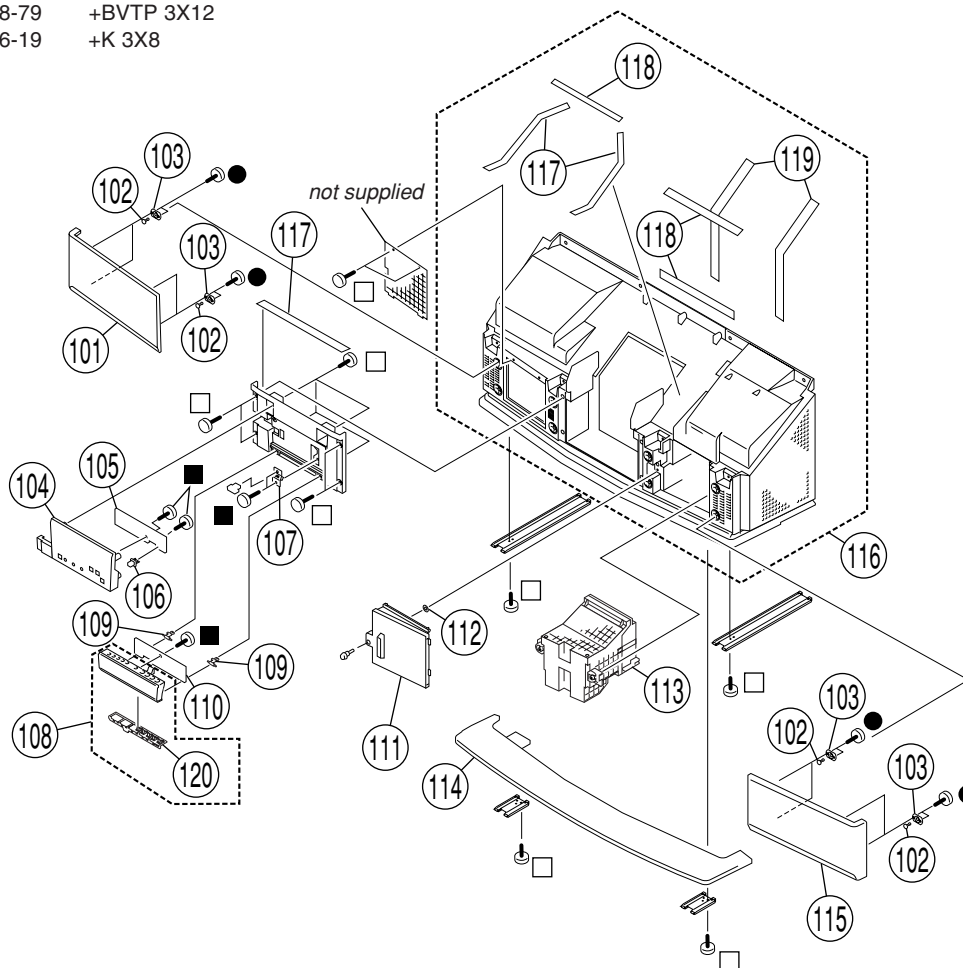


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4038-214-1	GRILLE (50R) ASSY, SP		57	4-078-837-02	CUSHION (B)	
52	X-4038-213-1	GRILLE (50L) ASSY, SP		59	4-077-491-11	PLATE (50L), DIFFUSION	
53	X-4038-016-1	HOLDER (S) ASSY, DP		60	4-077-492-11	PLATE (50F), DIFFUSION	
54	4-077-493-31	SCREEN (50), CONTRAST		61	4-078-851-01	SHEET (L), SHIELD	
55	X-4038-008-1	HOLDER ASSY, DP		62	4-078-852-01	SHEET (S), SHIELD	
56	X-4038-217-1	FRAME (50) ASSY, SCREEN					

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

5-3. CABINET SECTION

- : 7-685-663-79 +BVTP 4X16
■ : 7-685-648-79 +BVTP 3X12
● : 7-685-246-19 +K 3X8

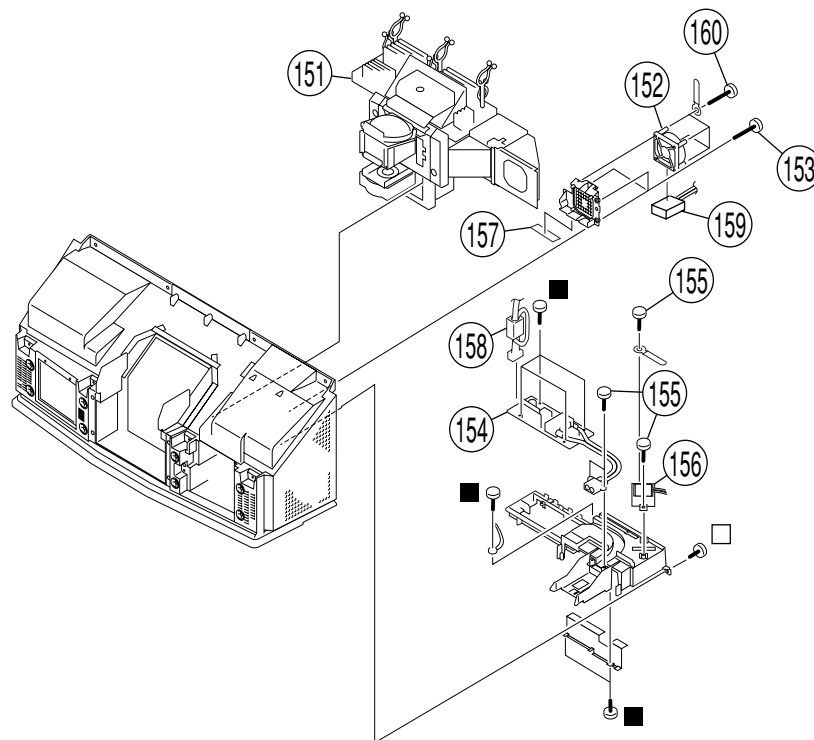


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-078-883-01	COVER L (PAINTED), FRONT		111	4-077-690-11	DOOR, LAMP	
102	4-838-452-00	STRIKE		112	* 3-650-537-00	WASHER	
103	4-838-453-00	SUPPORT		113	\triangle A-1484-885-A	LAMP BLOCK ASSY	
104	A-1429-647-A	PANEL ASSY, INDICATION		114	4-077-691-01	PEDESTAL	
105	A-1372-847-A	H4 MOUNT		115	4-078-882-01	COVER R (PAINTED), FRONT	
106	4-081-301-01	BUTTON, POWER		116	X-4038-221-1	CABINET (50) ASSY	117-119
107	4-047-464-01	CATCHER, PUSH		117	4-078-854-01	CUSHION (A)	
108	A-1429-646-A	PANEL ASSY, CONTROL	120	118	4-078-838-01	CUSHION (C)	
109	4-045-250-41	DAMPER		119	4-078-837-01	CUSHION (B)	
110	* A-1372-846-A	H2 MOUNT		120	4-077-741-12	BUTTON, CONTROL	

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

5-4. OPTICAL UNIT SECTION

■ : 7-685-648-79 +BVTP 3X12
□ : 7-685-663-79 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	\triangle A-1485-164-AOPTICS UNIT BLOCK ASSY			156	\triangle 1-419-965-11 COIL, CHOKE 27.0mH		
152	\triangle 1-698-696-21 FAN, DC			157	* 4-078-590-11 TAPE		
153	4-314-843-02 SCREW, TAPPING, +4X12			158	1-543-653-11 CORE ASSY, BEAD(DIVISION TYPE)		
154	\triangle 1-468-510-11 POWER BLOCK			159	\triangle 1-900-253-70 THERMOSTAT		
155	4-029-432-11 SCREW (3X12), (+) BVWHTP			160	4-306-021-03 SCREW (+P4X35)		

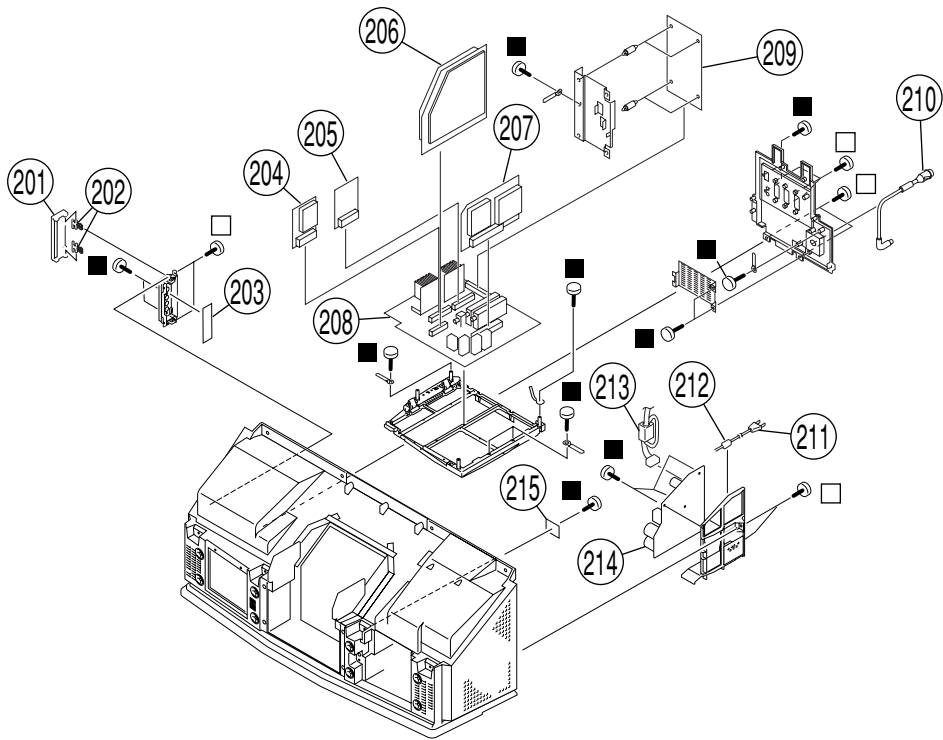
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

5-5. CHASSIS SECTION

- : 7-685-648-79

+BVTP 3X12
- : 7-685-663-79

+BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
201	4-077-732-11	LID, H1		210	1-790-082-11	CABLE, RF	
202	3-703-035-11	SHAFT, LID		211	\triangle 1-765-286-11	CORD, POWER (50SX100/50SX100K)	
203	* A-1372-879-A	H1 BOARD, COMPLETE		211	\triangle 1-776-204-11	CORD, POWER (50SX100U)	
204	* A-1395-005-A	S BOARD, COMPLETE		212	4-065-070-01	HOLDER, AC CORD	
205	* A-1395-017-A	N BOARD, COMPLETE		213	1-543-982-11	CORE, FERRITE	
206	* A-1136-121-A	BB BOARD, COMPLETE		214	* A-1316-525-A	G BOARD, COMPLETE	
207	* A-1306-594-A	M BOARD, COMPLETE		215	* A-1391-060-A	T BOARD, COMPLETE	
208	* A-1299-289-A	A BOARD, COMPLETE					
209	* A-1395-006-A	J BOARD, COMPLETE					

SECTION 6 ELECTRICAL PARTS LIST

A

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- CAPACITORS
PF : $\mu\mu$ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1299-289-A A BOARD, COMPLETE *****				C1423	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V
				C1424	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V
* 1-555-110-00 CABLE, PIN				C1425	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
4-202-373-01 SPRING, IC				C1426	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C1427	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
				C1428	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
<CAPACITOR>				C1901	1-104-664-11	ELECT	47 μ F 20% 25V
C1001	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1902	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V
C1002	1-163-227-11	CERAMIC CHIP	10pF 50V	C1904	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V
C1003	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1905	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C1004	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1911	1-126-933-11	ELECT	100 μ F 20% 16V
C1005	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C1914	1-126-933-11	ELECT	100 μ F 20% 16V
C1006	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1915	1-126-964-11	ELECT	10 μ F 20% 50V
C1301	1-126-934-11	ELECT	220 μ F 20% 10V	C1920	1-109-889-11	ELECT	1 μ F 20% 50V
C1302	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1921	1-126-926-11	ELECT	1000 μ F 20% 10V
C1304	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C1923	1-126-767-11	ELECT	1000 μ F 20% 16V
C1305	1-126-934-11	ELECT	220 μ F 20% 10V	C1924	1-163-257-11	CERAMIC CHIP	180pF 5% 50V
C1306	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1925	1-163-257-11	CERAMIC CHIP	180pF 5% 50V
C1307	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C1926	1-163-257-11	CERAMIC CHIP	180pF 5% 50V
C1308	1-126-933-11	ELECT	100 μ F 20% 16V	C1928	1-126-933-11	ELECT	100 μ F 20% 16V
C1312	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1931	1-104-665-11	ELECT	100 μ F 20% 25V
C1313	1-126-933-11	ELECT	100 μ F 20% 16V	C1932	1-104-665-11	ELECT	100 μ F 20% 25V
C1314	1-104-664-11	ELECT	47 μ F 20% 16V	C1933	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C1315	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1934	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C1316	1-126-235-11	ELECT	100 μ F 20% 10V	C1940	1-164-344-11	CERAMIC CHIP	0.068 μ F 10% 25V
C1319	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C1941	1-104-664-11	ELECT	47 μ F 20% 25V
C1401	1-130-777-00	MYLAR	0.1 μ F 5% 63V	C1942	1-104-664-11	ELECT	47 μ F 20% 25V
C1402	1-130-777-00	MYLAR	0.1 μ F 5% 63V	C1943	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C1403	1-130-777-00	MYLAR	0.1 μ F 5% 63V	C1944	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C1404	1-130-777-00	MYLAR	0.1 μ F 5% 63V	C1952	1-104-665-11	ELECT	100 μ F 20% 25V
C1405	1-104-664-11	ELECT	47 μ F 20% 16V	C1953	1-126-941-11	ELECT	470 μ F 20% 25V
C1409	1-136-165-00	FILM	0.1 μ F 5% 50V	C1956	1-109-889-11	ELECT	1 μ F 20% 50V
C1410	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C1957	1-126-964-11	ELECT	10 μ F 20% 50V
C1411	1-126-933-11	ELECT	100 μ F 20% 16V	C1958	1-126-933-11	ELECT	100 μ F 20% 16V
C1412	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C1960	1-126-916-11	ELECT	1000 μ F 20% 6.3V
C1413	1-126-967-11	ELECT	47 μ F 20% 50V	C1962	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C1414	1-126-967-11	ELECT	47 μ F 20% 50V	C1963	1-126-960-11	ELECT	1 μ F 20% 50V
C1415	1-126-967-11	ELECT	47 μ F 20% 50V	C1974	1-104-664-11	ELECT	47 μ F 20% 25V
C1416	1-126-967-11	ELECT	47 μ F 20% 50V	C1975	1-104-664-11	ELECT	47 μ F 20% 25V
C1417	1-126-967-11	ELECT	47 μ F 20% 50V	C1980	1-126-941-11	ELECT	470 μ F 20% 25V
C1418	1-126-967-11	ELECT	47 μ F 20% 50V	C1982	1-109-889-11	ELECT	1 μ F 20% 50V
C1419	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V	C1990	1-126-926-11	ELECT	1000 μ F 20% 10V
C1420	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V	C1992	1-126-935-11	ELECT	470 μ F 20% 16V
C1421	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V	C2005	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V
C1422	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V	C2006	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V
				C2007	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK		
C2008	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2020	1-126-941-11	ELECT	470μF	20%	25V
C2021	1-126-964-11	ELECT	10μF	20%	50V
C2022	1-126-964-11	ELECT	10μF	20%	50V
C2023	1-126-964-11	ELECT	10μF	20%	50V
C2024	1-126-964-11	ELECT	10μF	20%	50V
C2025	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C2026	1-137-374-11	MYLAR	0.047μF	5%	50V
C2027	1-137-374-11	MYLAR	0.047μF	5%	50V
C2028	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C2029	1-126-960-11	ELECT	1μF	20%	50V
C2031	1-137-374-11	MYLAR	0.047μF	5%	50V
C2032	1-137-374-11	MYLAR	0.047μF	5%	50V
C2033	1-126-964-11	ELECT	10μF	20%	50V
C2034	1-126-960-11	ELECT	1μF	20%	50V
C2035	1-126-965-11	ELECT	22μF	20%	50V
C2036	1-126-965-11	ELECT	22μF	20%	50V
C2037	1-126-964-11	ELECT	10μF	20%	50V
C2038	1-126-964-11	ELECT	10μF	20%	50V
C2039	1-126-964-11	ELECT	10μF	20%	50V
C2040	1-126-964-11	ELECT	10μF	20%	50V
C2041	1-126-964-11	ELECT	10μF	20%	50V
C2042	1-126-964-11	ELECT	10μF	20%	50V
C2045	1-107-703-11	ELECT	220μF	20%	25V
C2046	1-107-703-11	ELECT	220μF	20%	25V
C2051	1-136-165-00	FILM	0.1μF	5%	50V
C2052	1-136-165-00	FILM	0.1μF	5%	50V
C2053	1-136-165-00	FILM	0.1μF	5%	50V
C2054	1-136-165-00	FILM	0.1μF	5%	50V
C2055	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C2056	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C2057	1-128-548-11	ELECT	4700μF	20%	25V
C2058	1-128-548-11	ELECT	4700μF	20%	25V
C2059	1-126-935-11	ELECT	470μF	20%	16V
<CONNECTOR>					
CN1001	1-695-299-11	CONNECTOR, BOARD TO BOARD	50P		
CN1201	1-783-967-11	CONNECTOR, BOARD TO BOARD	30P		
CN1202	1-783-967-11	CONNECTOR, BOARD TO BOARD	30P		
CN1665	1-695-915-11	TAB (CONTACT)			
CN1701	1-695-298-11	CONNECTOR, BOARD TO BOARD	40P		
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD	50P		
CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD	40P		
CN1904*	1-564-515-11	PLUG, CONNECTOR	12P		
CN1905*	1-564-512-11	PLUG, CONNECTOR	9P		
CN1906*	1-564-506-11	PLUG, CONNECTOR	3P		
CN1907*	1-764-333-11	PLUG, CONNECTOR	10P		
CN1908	1-764-334-11	PLUG, CONNECTOR	11P		
CN1914*	1-564-512-11	PLUG, CONNECTOR	9P		
CN1915*	1-564-511-61	PLUG, CONNECTOR	8P		
CN1917*	1-564-508-11	PLUG, CONNECTOR	5P		
CN1918*	1-564-509-11	PLUG, CONNECTOR	6P		
CN1922	1-764-812-11	CONNECTOR, BOARD TO BOARD	11P		
CN1924*	1-764-333-11	PLUG, CONNECTOR	10P		
CN1925*	1-564-506-11	PLUG, CONNECTOR	3P		
CN1926*	1-580-838-11	PIN, CONNECTOR (PC BOARD)	4P		

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN2002*	1-564-511-11	PLUG, CONNECTOR	8P
CN2003*	1-564-510-11	PLUG, CONNECTOR	7P
<COMPOSITION CIRCUIT BLOCK>			
CP1301	1-251-658-11	SPLITTER	RF
<DIODE>			
D1108	8-719-988-61	DIODE	1SS355TE-17
D1109	8-719-988-61	DIODE	1SS355TE-17
D1301	8-719-158-49	DIODE	UDZ-TE-17-12B
D1302	8-719-158-49	DIODE	UDZ-TE-17-12B
D1303	8-719-158-49	DIODE	UDZ-TE-17-12B
D1304	8-719-158-49	DIODE	UDZ-TE-17-12B
D1401	8-719-914-43	DIODE	DAN202K-T-146
D1901	8-719-073-01	DIODE	MA111-TX
D1902	8-719-073-01	DIODE	MA111-TX
D1903	8-719-106-17	DIODE	RD6.8M-T1B2
D1906	8-719-025-31	DIODE	02CZ5.6-TE85L
D1907	8-719-073-01	DIODE	MA111-TX
D1908	8-719-073-01	DIODE	MA111-TX
D1909	8-719-073-01	DIODE	MA111-TX
D1910	8-719-073-01	DIODE	MA111-TX
D1911	8-719-073-01	DIODE	MA111-TX
D1912	8-719-073-01	DIODE	MA111-TX
D1913	8-719-073-01	DIODE	MA111-TX
D1914	8-719-073-01	DIODE	MA111-TX
D1918	8-719-073-01	DIODE	MA111-TX
D1919	8-719-914-43	DIODE	DAN202K-T-146
D1920	8-719-073-01	DIODE	MA111-TX
D1921	8-719-073-01	DIODE	MA111-TX
D1926	8-719-073-01	DIODE	MA111-TX
D1933	8-719-500-70	DIODE	D5S4M
D2001	8-719-073-01	DIODE	MA111-TX
D2002	8-719-988-61	DIODE	1SS355TE-17
D2003	8-719-157-54	DIODE	RD12M-T1B
D2004	8-719-157-54	DIODE	RD12M-T1B
D2005	8-719-073-01	DIODE	MA111-TX
D2006	8-719-073-01	DIODE	MA111-TX
D2007	8-719-914-43	DIODE	DAN202K-T-146
D2008	8-719-914-43	DIODE	DAN202K-T-146
D2009	8-719-914-43	DIODE	DAN202K-T-146
D2010	8-719-914-43	DIODE	DAN202K-T-146
D2011	8-719-914-43	DIODE	DAN202K-T-146
D2013	8-719-914-43	DIODE	DAN202K-T-146
<FILTER>			
FL1301	1-233-435-11	FILTER, LOW PASS	
FL1302	1-233-436-11	FILTER, LOW PASS	
FL1303	1-233-436-11	FILTER, LOW PASS	
FL1401	1-236-071-11	ENCAPSULATED COMPONENT	
<IC>			
IC1001	8-759-285-52	IC	PC74HC02D-T



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1002	8-759-285-51	IC PC74HC00D-T		Q1315	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1003	8-759-037-79	IC SN74HC163ANS		Q1316	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1004	8-752-072-94	IC CXA1875AM-T4		Q1317	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1005	8-759-037-79	IC SN74HC163ANS		Q1318	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1006	8-759-084-79	IC TC7S14F(TE85R)		Q1319	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1007	8-759-084-79	IC TC7S14F(TE85R)		Q1320	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1401	8-752-072-94	IC CXA1875AM-T4		Q1321	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1402	8-752-067-36	IC CXA1815S		Q1401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1405	8-759-242-74	IC TC7W04F(TE12R)		Q1402	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1901	8-759-442-07	IC LM75CIMX-5		Q1403	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1902	8-752-072-94	IC CXA1875AM-T4		Q1404	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1903	8-759-284-06	IC PQ30RV31		Q1405	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1904	8-759-198-03	IC PQ09RF21		Q1406	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1905	8-759-663-29	IC MM1476AF(TP)		Q1407	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1907	8-759-098-24	IC PQ30RV11		Q1408	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1908	8-759-098-24	IC PQ30RV11		Q1409	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1910	8-759-098-24	IC PQ30RV11		Q1410	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC1911	8-759-284-06	IC PQ30RV31		Q1411	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1912	8-759-054-12	IC PQ09RF11		Q1412	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC1913	8-759-640-19	IC PQ1CG2032FZ		Q1413	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC2002	8-759-100-96	IC NJM4558M-TE2		Q1414	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
IC2003	8-759-590-05	IC TDA7269A		Q1415	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC2004	8-759-590-05	IC TDA7269A		Q1416	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
<CHIP CONDUCTOR>				Q1417	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
JR2006	1-216-295-11	SHORT	0	Q1901	8-729-900-53	TRANSISTOR DTC114EKA-T146	
JR2007	1-216-295-11	SHORT	0	Q1902	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
<COIL>				Q1903	8-729-900-53	TRANSISTOR DTC114EKA-T146	
L1301	1-408-603-31	INDUCTOR	10μH	Q1904	8-729-900-53	TRANSISTOR DTC114EKA-T146	
L1302	1-408-603-31	INDUCTOR	10μH	Q1905	8-729-900-53	TRANSISTOR DTC114EKA-T146	
L1303	1-408-603-31	INDUCTOR	10μH	Q1906	8-729-900-53	TRANSISTOR DTC114EKA-T146	
L1306	1-410-687-11	INDUCTOR	1.2mH	Q1907	8-729-900-53	TRANSISTOR DTC114EKA-T146	
L1908	1-406-662-11	INDUCTOR	33μH	Q1908	8-729-422-33	TRANSISTOR 2PD601AR-115	
<TRANSISTOR>				Q1910	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q1911	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q1912	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q1913	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q1914	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1301	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q1915	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q1302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2001	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1303	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q2002	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2003	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1305	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q2004	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1306	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2005	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1307	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2006	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q1308	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q2007	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1309	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q2008	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1310	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2009	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1311	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2010	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1312	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2011	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1313	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2012	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1314	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		Q2013	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
				Q2014	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
				Q2015	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
				Q2017	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
				Q2019	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	



REF. NO.	PART NO.	DESCRIPTION	REMARK			
<RESISTOR>						
R1001	1-216-295-11	SHORT	0			
R1002	1-216-295-11	SHORT	0			
R1003	1-216-295-11	SHORT	0			
R1004	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1005	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1006	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1007	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1008	1-216-295-11	SHORT	0			
R1009	1-216-295-11	SHORT	0			
R1010	1-216-295-11	SHORT	0			
R1011	1-216-295-11	SHORT	0			
R1012	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1013	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1015	1-216-295-11	SHORT	0			
R1016	1-216-295-11	SHORT	0			
R1018	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1019	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1022	1-216-295-11	SHORT	0			
R1023	1-216-295-11	SHORT	0			
R1107	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R1108	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R1109	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1110	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R1111	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1123	1-249-381-11	CARBON	1	5%	1/4W	
R1223	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R1224	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1231	1-216-295-11	SHORT	0			
R1232	1-216-295-11	SHORT	0			
R1233	1-216-295-11	SHORT	0			
R1234	1-216-295-11	SHORT	0			
R1301	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1302	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1303	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1304	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1305	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1306	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1307	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1308	1-216-075-00	RES-CHIP	12K	5%	1/10W	
R1309	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1310	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1311	1-216-001-00	RES-CHIP	10	5%	1/10W	
R1312	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1313	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	
R1314	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1315	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1316	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1317	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1318	1-216-043-91	RES-CHIP	560	5%	1/10W	
R1319	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1320	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1321	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1322	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1323	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1324	1-216-073-00	RES-CHIP	10K	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R1325	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1326	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1327	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1328	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R1329	1-216-295-11	SHORT	0			
R1330	1-216-295-11	SHORT	0			
R1331	1-216-295-11	SHORT	0			
R1332	1-216-295-11	SHORT	0			
R1333	1-216-045-00	RES-CHIP	680	5%	1/10W	
R1334	1-216-645-11	METAL CHIP	560	0.5%	1/10W	
R1335	1-216-295-11	SHORT	0			
R1336	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	
R1337	1-216-043-91	RES-CHIP	560	5%	1/10W	
R1338	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1339	1-216-645-11	METAL CHIP	560	0.5%	1/10W	
R1340	1-216-295-11	SHORT	0			
R1341	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	
R1342	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1343	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1344	1-216-645-11	METAL CHIP	560	0.5%	1/10W	
R1345	1-216-295-11	SHORT	0			
R1346	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	
R1347	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1348	1-216-643-11	METAL CHIP	470	0.5%	1/10W	
R1349	1-216-643-11	METAL CHIP	470	0.5%	1/10W	
R1350	1-216-633-11	METAL CHIP	180	0.5%	1/10W	
R1351	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1352	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1353	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1354	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1355	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1356	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1369	1-216-295-11	SHORT	0			
R1371	1-216-295-11	SHORT	0			
R1372	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1373	1-216-085-00	RES-CHIP	33K	5%	1/10W	
R1375	1-216-077-91	RES-CHIP	15K	5%	1/10W	
R1401	1-216-029-00	RES-CHIP	150	5%	1/10W	
R1402	1-216-027-00	RES-CHIP	120	5%	1/10W	
R1403	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1405	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1406	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1407	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1408	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1409	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1410	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1411	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1412	1-216-025-11	RES-CHIP	100	5%	1/10W	
R1413	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R1414	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1415	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1416	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1417	1-216-017-91	RES-CHIP	47	5%	1/10W	
R1418	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R1419	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1420	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1421	1-216-025-11	RES-CHIP	100	5%	1/10W	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1422	1-216-295-11	SHORT	0	R1912	1-216-295-11	SHORT	0
R1423	1-216-025-11	RES-CHIP	100 5% 1/10W	R1913	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1424	1-216-017-91	RES-CHIP	47 5% 1/10W	R1914	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1425	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1915	1-216-295-11	SHORT	0
R1426	1-216-017-91	RES-CHIP	47 5% 1/10W	R1916	1-216-295-11	SHORT	0
R1427	1-216-041-00	RES-CHIP	470 5% 1/10W	R1917	1-216-295-11	SHORT	0
R1428	1-216-041-00	RES-CHIP	470 5% 1/10W	R1918	1-216-681-11	METAL CHIP	18K 0.5% 1/10W
R1429	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1919	1-216-295-11	SHORT	0
R1430	1-216-017-91	RES-CHIP	47 5% 1/10W	R1920	1-216-295-11	SHORT	0
R1431	1-216-017-91	RES-CHIP	47 5% 1/10W	R1921	1-216-295-11	SHORT	0
R1432	1-216-041-00	RES-CHIP	470 5% 1/10W	R1922	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1433	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1923	1-218-754-11	METAL CHIP	120K 0.5% 1/10W
R1434	1-216-041-00	RES-CHIP	470 5% 1/10W	R1924	1-216-677-11	METAL CHIP	12K 0.5% 1/10W
R1435	1-216-017-91	RES-CHIP	47 5% 1/10W	R1926	1-216-295-11	SHORT	0
R1436	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1927	1-216-295-11	SHORT	0
R1437	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1928	1-216-089-11	RES-CHIP	47K 5% 1/10W
R1442	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1929	1-216-089-11	RES-CHIP	47K 5% 1/10W
R1443	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1930	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1444	1-216-025-11	RES-CHIP	100 5% 1/10W	R1932	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1445	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1933	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
R1446	1-216-025-11	RES-CHIP	100 5% 1/10W	R1934	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R1447	1-216-025-11	RES-CHIP	100 5% 1/10W	R1935	1-216-295-11	SHORT	0
R1448	1-216-025-11	RES-CHIP	100 5% 1/10W	R1936	1-216-295-11	SHORT	0
R1449	1-216-025-11	RES-CHIP	100 5% 1/10W	R1937	1-216-685-11	METAL CHIP	27K 0.5% 1/10W
R1450	1-216-017-91	RES-CHIP	47 5% 1/10W	R1938	1-216-677-11	METAL CHIP	12K 0.5% 1/10W
R1451	1-216-017-91	RES-CHIP	47 5% 1/10W	R1940	1-216-395-00	METAL OXIDE	3.3 5% 3W
R1454	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1941	1-216-683-11	METAL CHIP	22K 0.5% 1/10W
R1456	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1942	1-216-683-11	METAL CHIP	22K 0.5% 1/10W
R1457	1-216-025-11	RES-CHIP	100 5% 1/10W	R1943	1-216-295-11	SHORT	0
R1458	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1944	1-216-295-11	SHORT	0
R1459	1-216-025-11	RES-CHIP	100 5% 1/10W	R1945	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R1462	1-216-295-11	SHORT	0	R1947	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R1463	1-216-017-91	RES-CHIP	47 5% 1/10W	R1948	1-216-037-00	RES-CHIP	330 5% 1/10W
R1464	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1949	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1465	1-216-017-91	RES-CHIP	47 5% 1/10W	R1950	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1466	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1951	1-216-097-11	RES-CHIP	100K 5% 1/10W
R1467	1-216-017-91	RES-CHIP	47 5% 1/10W	R1952	1-216-089-11	RES-CHIP	47K 5% 1/10W
R1468	1-216-041-00	RES-CHIP	470 5% 1/10W	R1953	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1469	1-216-097-11	RES-CHIP	100K 5% 1/10W	R1954	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1470	1-216-029-00	RES-CHIP	150 5% 1/10W	R1955	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1471	1-216-021-00	RES-CHIP	68 5% 1/10W	R1956	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1472	1-216-045-00	RES-CHIP	680 5% 1/10W	R1957	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1473	1-216-029-00	RES-CHIP	150 5% 1/10W	R1958	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1474	1-216-025-11	RES-CHIP	100 5% 1/10W	R1959	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1475	1-216-045-00	RES-CHIP	680 5% 1/10W	R1960	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1901	1-216-025-11	RES-CHIP	100 5% 1/10W	R1961	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1902	1-216-017-91	RES-CHIP	47 5% 1/10W	R1962	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1903	1-216-017-91	RES-CHIP	47 5% 1/10W	R1963	1-216-697-91	METAL CHIP	82K 0.5% 1/10W
R1904	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1964	1-216-677-11	METAL CHIP	12K 0.5% 1/10W
R1905	1-216-089-11	RES-CHIP	47K 5% 1/10W	R1965	1-218-754-11	METAL CHIP	120K 0.5% 1/10W
R1906	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1966	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1907	1-216-025-11	RES-CHIP	100 5% 1/10W	R1967	1-216-295-11	SHORT	0
R1908	1-216-025-11	RES-CHIP	100 5% 1/10W	R1970	1-216-017-91	RES-CHIP	47 5% 1/10W
R1909	1-216-025-11	RES-CHIP	100 5% 1/10W	R1971	1-216-017-91	RES-CHIP	47 5% 1/10W
R1910	1-216-025-11	RES-CHIP	100 5% 1/10W	R1972	1-216-656-11	METAL CHIP	1.6K 0.5% 1/10W
R1911	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1973	1-216-644-11	METAL CHIP	510 0.5% 1/10W
				R1975	1-216-049-11	RES-CHIP	1K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1976	1-216-049-11	RES-CHIP	1K 5% 1/10W	R2053	1-216-678-11	METAL CHIP	13K 0.5% 1/10W
R1977	1-218-754-11	METAL CHIP	120K 0.5% 1/10W	R2054	1-240-068-21	RES-CHIP	560 5% 1/10W
R1978	1-216-677-11	METAL CHIP	12K 0.5% 1/10W	R2055	1-216-678-11	METAL CHIP	13K 0.5% 1/10W
R1979	1-216-681-11	METAL CHIP	18K 0.5% 1/10W	R2056	1-240-068-21	RES-CHIP	560 5% 1/10W
R1983	1-216-683-11	METAL CHIP	22K 0.5% 1/10W				
R1993	1-216-295-11	SHORT	0	R2057	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1994	1-216-295-11	SHORT	0	R2058	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1995	1-216-295-11	SHORT	0	R2059	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1996	1-216-295-11	SHORT	0	R2060	1-216-075-00	RES-CHIP	12K 5% 1/10W
R1997	1-216-295-11	SHORT	0	R2061	1-216-075-00	RES-CHIP	12K 5% 1/10W
R2005	1-216-089-11	RES-CHIP	47K 5% 1/10W	R2062	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2006	1-216-619-11	RES-CHIP	47 5% 1/10W	R2063	1-216-295-11	SHORT	0
R2007	1-216-619-11	RES-CHIP	47 5% 1/10W	R2064	1-216-085-00	RES-CHIP	33K 5% 1/10W
R2008	1-240-067-21	RES-CHIP	470 5% 1/10W	R2065	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2009	1-240-067-21	RES-CHIP	470 5% 1/10W	R2066	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2010	1-216-039-00	RES-CHIP	390 5% 1/10W	R2068	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2011	1-218-776-11	RES-CHIP	1M 5% 1/10W	R2069	1-216-295-11	SHORT	0
R2012	1-218-776-11	RES-CHIP	1M 5% 1/10W	R2071	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2013	1-240-090-21	RES-CHIP	39K 5% 1/10W	R2072	1-216-089-11	RES-CHIP	47K 5% 1/10W
R2014	1-240-090-21	RES-CHIP	39K 5% 1/10W	R2073	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2015	1-216-039-00	RES-CHIP	390 5% 1/10W	R2074	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2016	1-240-090-21	RES-CHIP	39K 5% 1/10W	R2075	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2017	1-240-090-21	RES-CHIP	39K 5% 1/10W	R2076	1-216-357-00	METAL OXIDE	4.7 5% 1W
R2018	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2077	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R2019	1-216-675-11	RES-CHIP	10K 5% 1/10W	R2082	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2020	1-216-675-11	RES-CHIP	10K 5% 1/10W	R2607	1-216-025-11	RES-CHIP	100 5% 1/10W
R2021	1-216-071-00	RES-CHIP	8.2K 5% 1/10W				
R2022	1-216-081-00	RES-CHIP	22K 5% 1/10W			<RELAY>	
R2023	1-216-033-00	RES-CHIP	220 5% 1/10W	RY1101	1-755-028-11	RELAY	
R2024	1-216-675-11	RES-CHIP	10K 5% 1/10W	RY1102	1-755-028-11	RELAY	
R2025	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2026	1-216-675-11	RES-CHIP	10K 5% 1/10W			<TUNER>	
R2027	1-216-089-11	RES-CHIP	47K 5% 1/10W				
R2028	1-216-647-11	RES-CHIP	680 5% 1/10W	TU1301	1-693-340-21	TUNER/VIF	
R2029	1-216-647-11	RES-CHIP	680 5% 1/10W	TU1302	1-693-340-21	TUNER/VIF	
R2030	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2031	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R2032	1-216-097-11	RES-CHIP	100K 5% 1/10W				
R2033	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R2034	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R2035	1-240-079-21	RES-CHIP	4.7K 5% 1/10W				
R2036	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2037	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R2038	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R2039	1-240-079-21	RES-CHIP	4.7K 5% 1/10W				
R2040	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R2041	1-216-075-00	RES-CHIP	12K 5% 1/10W				
R2043	1-240-068-21	RES-CHIP	560 5% 1/10W				
R2044	1-216-075-00	RES-CHIP	12K 5% 1/10W				
R2045	1-216-075-00	RES-CHIP	12K 5% 1/10W				
R2046	1-240-068-21	RES-CHIP	560 5% 1/10W				
R2047	1-216-025-11	RES-CHIP	100 5% 1/10W				
R2049	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R2050	1-216-089-11	RES-CHIP	47K 5% 1/10W				
R2051	1-216-295-11	SHORT	0				
R2052	1-216-049-11	RES-CHIP	1K 5% 1/10W				

* A-1136-121-A BB BOARD, COMPLETE

3-701-809-21 SCREW, TERMINAL (M3X6)

<CAPACITOR>

C301	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C302	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C303	1-126-204-11	ELECT CHIP	47μF	20%	16V
C304	1-126-204-11	ELECT CHIP	47μF	20%	16V
C305	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C306	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C307	1-126-204-11	ELECT CHIP	47μF	20%	16V
C308	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C310	1-124-779-00	ELECT CHIP	10μF	20%	16V
C312	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C313	1-163-038-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C315	1-126-204-11	ELECT CHIP	47μF 20%	C372	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C316	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C373	1-126-204-11	ELECT CHIP	47μF 20%
C317	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C318	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C376	1-104-601-11	ELECT CHIP	10μF 20%
				C378	1-104-601-11	ELECT CHIP	10μF 20%
C319	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C379	1-104-601-11	ELECT CHIP	10μF 20%
C320	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C380	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C321	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C381	1-124-779-00	ELECT CHIP	10μF 20%
C322	1-126-204-11	ELECT CHIP	47μF 20%				
C323	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C385	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C386	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C324	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C401	1-124-779-00	ELECT CHIP	10μF 20%
C325	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C402	1-124-779-00	ELECT CHIP	10μF 20%
C326	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C403	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C327	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C328	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C404	1-163-021-91	CERAMIC CHIP	0.01μF 10%
				C405	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C329	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C406	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C330	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C407	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C331	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C408	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C332	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C333	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C409	1-163-021-91	CERAMIC CHIP	0.01μF 10%
				C410	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C334	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C411	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C335	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C412	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C336	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C413	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C337	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C338	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C414	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C415	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C339	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C416	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C340	1-126-206-11	ELECT CHIP	100μF 20%	C417	1-164-004-11	CERAMIC CHIP	0.1μF 10%
C341	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C418	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C342	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C343	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C419	1-163-012-00	CERAMIC CHIP	0.0018μF 5%
				C420	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C344	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C421	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C345	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C422	1-126-204-11	ELECT CHIP	47μF 20%
C346	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C424	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C347	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C348	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C425	1-163-021-91	CERAMIC CHIP	0.01μF 10%
				C426	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C349	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C427	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C350	1-126-204-11	ELECT CHIP	47μF 20%	C428	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C351	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C429	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C352	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C353	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C430	1-163-019-00	CERAMIC CHIP	0.0068μF 10%
				C431	1-110-501-11	CERAMIC CHIP	0.33μF 10%
C354	1-126-204-11	ELECT CHIP	47μF 20%	C432	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C355	1-126-205-11	ELECT CHIP	47μF 20%	C433	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C356	1-126-603-11	ELECT CHIP	4.7μF 20%	C434	1-126-204-11	ELECT CHIP	47μF 20%
C357	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C358	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C435	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C437	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C359	1-163-021-91	CERAMIC CHIP	0.01μF 10%	C503	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C360	1-126-204-11	ELECT CHIP	47μF 20%	C504	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C361	1-164-004-11	CERAMIC CHIP	0.1μF 10%	C509	1-163-021-91	CERAMIC CHIP	0.01μF 10%
C362	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C363	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C510	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C512	1-163-143-00	CERAMIC CHIP	0.0012μF 5%
C364	1-126-205-11	ELECT CHIP	47μF 20%	C513	1-163-251-11	CERAMIC CHIP	100pF 5%
C365	1-164-004-11	CERAMIC CHIP	0.1μF 10%	C514	1-110-501-11	CERAMIC CHIP	0.33μF 10%
C366	1-164-004-11	CERAMIC CHIP	0.1μF 10%	C515	1-163-251-11	CERAMIC CHIP	100pF 5%
C367	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C368	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C516	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C518	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C369	1-126-204-11	ELECT CHIP	47μF 20%	C519	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C370	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C520	1-124-779-00	ELECT CHIP	10μF 20%
C371	1-163-038-11	CERAMIC CHIP	0.1μF 25V	C521	1-124-779-00	ELECT CHIP	10μF 20%



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C523	1-164-346-11	CERAMIC CHIP 1μF	16V	C602	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C527	1-124-779-00	ELECT CHIP 10μF	20% 16V	C603	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C531	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C604	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C532	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C605	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C533	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C606	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C534	1-164-346-11	CERAMIC CHIP 1μF	16V	C607	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C535	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C608	1-163-229-11	CERAMIC CHIP 12pF	5% 50V
C536	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C609	1-163-229-11	CERAMIC CHIP 12pF	5% 50V
C537	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C611	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
C538	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C614	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C540	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C615	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C544	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C617	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C545	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C618	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C546	1-126-204-11	ELECT CHIP 47μF	20% 16V	C619	1-124-779-00	ELECT CHIP 10μF	20% 16V
C548	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C620	1-126-204-11	ELECT CHIP 47μF	20% 16V
C549	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C621	1-126-204-11	ELECT CHIP 47μF	20% 16V
C550	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C622	1-124-779-00	ELECT CHIP 10μF	20% 16V
C551	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C623	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C554	1-164-346-11	CERAMIC CHIP 1μF	16V	C624	1-124-779-00	ELECT CHIP 10μF	20% 16V
C555	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C625	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C557	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C626	1-124-779-00	ELECT CHIP 10μF	20% 16V
C558	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C627	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C559	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C628	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C560	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C629	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C561	1-126-204-11	ELECT CHIP 47μF	20% 16V	C630	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C563	1-164-182-11	CERAMIC CHIP 0.0033μF	10% 50V	C631	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C565	1-164-346-11	CERAMIC CHIP 1μF	16V	C632	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C566	1-104-601-11	ELECT CHIP 10μF	20% 10V	C633	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C567	1-104-601-11	ELECT CHIP 10μF	20% 10V	C638	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C568	1-104-601-11	ELECT CHIP 10μF	20% 10V	C639	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C570	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C640	1-163-038-11	CERAMIC CHIP 0.1μF	25V
C571	1-124-779-00	ELECT CHIP 10μF	20% 16V	C641	1-124-779-00	ELECT CHIP 10μF	20% 16V
C572	1-126-206-11	ELECT CHIP 100μF	20% 6.3V	C642	1-124-779-00	ELECT CHIP 10μF	20% 16V
C574	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C643	1-164-346-11	CERAMIC CHIP 1μF	16V
C575	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C644	1-164-346-11	CERAMIC CHIP 1μF	16V
C578	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C645	1-164-346-11	CERAMIC CHIP 1μF	16V
C579	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C655	1-164-346-11	CERAMIC CHIP 1μF	16V
C580	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C656	1-164-346-11	CERAMIC CHIP 1μF	16V
C581	1-126-206-11	ELECT CHIP 100μF	20% 6.3V	C661	1-163-275-11	CERAMIC CHIP 0.001μF	5% 50V
C582	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C662	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
C583	1-124-779-00	ELECT CHIP 10μF	20% 16V	C663	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C584	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C664	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C585	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C665	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C588	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C701	1-126-204-11	ELECT CHIP 47μF	20% 16V
C589	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C702	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C590	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C703	1-126-204-11	ELECT CHIP 47μF	20% 16V
C591	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C704	1-124-779-00	ELECT CHIP 10μF	20% 16V
C592	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C705	1-163-113-00	CERAMIC CHIP 68pF	5% 50V
C593	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C706	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C594	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C707	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C595	1-109-982-11	CERAMIC CHIP 1μF	10% 10V	C708	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C596	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C709	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C597	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C710	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C598	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C711	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C599	1-124-779-00	ELECT CHIP 10μF	20% 16V	C712	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C600	1-124-779-00	ELECT CHIP 10μF	20% 16V	C713	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C601	1-163-038-11	CERAMIC CHIP 0.1μF	25V	C714	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C716	1-163-237-11	CERAMIC CHIP	27pF 5% 50V	C781	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C717	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C782	1-126-204-11	ELECT CHIP	47μF 20% 16V
C718	1-163-245-11	CERAMIC CHIP	56pF 5% 50V	C783	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C719	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C784	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C720	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C785	1-124-779-00	ELECT CHIP	10μF 20% 16V
C721	1-124-779-00	ELECT CHIP	10μF 20% 16V	C786	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C722	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C791	1-164-346-11	CERAMIC CHIP	1μF 16V
C725	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C793	1-127-515-11	ELECT	47μF 20% 10V
C726	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C797	1-164-346-11	CERAMIC CHIP	1μF 16V
C728	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C798	1-127-515-11	ELECT	47μF 20% 10V
C729	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C799	1-164-346-11	CERAMIC CHIP	1μF 16V
C731	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C801	1-127-515-11	ELECT	47μF 20% 10V
C732	1-124-779-00	ELECT CHIP	10μF 20% 16V	C806	1-127-515-11	ELECT	47μF 20% 10V
C734	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C807	1-127-515-11	ELECT	47μF 20% 10V
C735	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C808	1-164-346-11	CERAMIC CHIP	1μF 16V
C736	1-124-779-00	ELECT CHIP	10μF 20% 16V	C809	1-164-346-11	CERAMIC CHIP	1μF 16V
C737	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C810	1-126-935-11	ELECT	470μF 20% 16V
C738	1-126-204-11	ELECT CHIP	47μF 20% 16V	C812	1-126-935-11	ELECT	470μF 20% 16V
C739	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C814	1-164-346-11	CERAMIC CHIP	1μF 16V
C740	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C815	1-164-346-11	CERAMIC CHIP	1μF 16V
C741	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C830	1-164-346-11	CERAMIC CHIP	1μF 16V
C742	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C831	1-164-346-11	CERAMIC CHIP	1μF 16V
C743	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C832	1-164-346-11	CERAMIC CHIP	1μF 16V
C744	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C833	1-164-346-11	CERAMIC CHIP	1μF 16V
C745	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C834	1-164-346-11	CERAMIC CHIP	1μF 16V
C746	1-126-204-11	ELECT CHIP	47μF 20% 16V	C835	1-127-515-11	ELECT	47μF 20% 10V
C747	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C836	1-164-346-11	CERAMIC CHIP	1μF 16V
C748	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C837	1-127-515-11	ELECT	47μF 20% 10V
C749	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C838	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C750	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C839	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C751	1-124-779-00	ELECT CHIP	10μF 20% 16V	C840	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C752	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C844	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C753	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C845	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C754	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C846	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C755	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C847	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C756	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C848	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C757	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C849	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C758	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	<CONNECTOR>			
C759	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	CN701	1-783-966-11	CONNECTOR, BOARD TO BOARD 30P	
C760	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	CN702 *	1-764-643-21	PIN, CONNECTOR (SMD) 11P	
C761	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	CN703	1-783-966-11	CONNECTOR, BOARD TO BOARD 30P	
C762	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	<DIODE>			
C763	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D301	8-719-422-12	DIODE UDZ-TE-17-3.9B	
C764	1-163-135-00	CERAMIC CHIP	560pF 5% 50V	D302	8-719-976-83	DIODE DTZ-TT11-3.6	
C765	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D501	8-719-914-43	DIODE DAN202K-T-146	
C766	1-163-135-00	CERAMIC CHIP	560pF 5% 50V	D502	8-719-914-44	DIODE DAP202K-T-146	
C768	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D701	8-719-073-01	DIODE MA111-TX	
C769	1-164-346-11	CERAMIC CHIP	1μF 16V	D702	8-719-073-01	DIODE MA111-TX	
C770	1-126-204-11	ELECT CHIP	47μF 20% 16V	D703	8-719-073-01	DIODE MA111-TX	
C771	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D704	8-719-073-01	DIODE MA111-TX	
C772	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D705	8-719-073-01	DIODE MA111-TX	
C773	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D707	8-719-073-01	DIODE MA111-TX	
C774	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C775	1-163-038-11	CERAMIC CHIP	0.1μF 25V				
C778	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C779	1-164-346-11	CERAMIC CHIP	1μF 16V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<FILTER>				L310	1-414-757-11	INDUCTOR	100μH
FL401	1-234-177-21	FILTER, CHIP EMI		L311	1-414-754-11	INDUCTOR	10μH
FL402	1-234-177-21	FILTER, CHIP EMI		L312	1-414-754-11	INDUCTOR	10μH
FL403	1-234-177-21	FILTER, CHIP EMI		L402	1-414-754-11	INDUCTOR	10μH
FL404	1-234-177-21	FILTER, CHIP EMI		L502	1-414-754-11	INDUCTOR	10μH
FL405	1-234-177-21	FILTER, CHIP EMI		L503	1-414-754-11	INDUCTOR	10μH
FL501	1-234-335-11	FILTER, LOW PASS		L507	1-414-754-11	INDUCTOR	10μH
FL701	1-233-736-21	FILTER, EMI		L508	1-410-663-31	INDUCTOR	10μH
FL702	1-233-736-21	FILTER, EMI		L509	1-410-663-31	INDUCTOR	10μH
FL703	1-233-736-21	FILTER, EMI		L510	1-414-754-11	INDUCTOR	10μH
FL704	1-233-736-21	FILTER, EMI		L511	1-414-754-11	INDUCTOR	10μH
FL705	1-233-736-21	FILTER, EMI		L512	1-414-754-11	INDUCTOR	10μH
FL706	1-233-736-21	FILTER, EMI		L513	1-414-754-11	INDUCTOR	10μH
FL707	1-233-736-21	FILTER, EMI		L514	1-414-754-11	INDUCTOR	10μH
FL711	1-234-586-21	FILTER, LOW PASS		L515	1-414-754-11	INDUCTOR	10μH
FL712	1-234-586-21	FILTER, LOW PASS		L516	1-410-663-31	INDUCTOR	10μH
FL713	1-234-586-21	FILTER, LOW PASS		L517	1-410-663-31	INDUCTOR	10μH
<IC>				L519	1-410-995-42	INDUCTOR	1.5μH
IC301	8-759-669-78	IC TLC2933IPWR-12		L701	1-414-755-11	INDUCTOR	22μH
IC302	8-749-015-18	IC PQ07VZ012P		L702	1-414-755-11	INDUCTOR	22μH
IC303	8-759-573-19	IC MSM56V16160D-10TS-K		L703	1-414-755-11	INDUCTOR	22μH
IC304	8-752-398-47	IC CXD2090Q		L705	1-414-754-11	INDUCTOR	10μH
IC305	8-759-447-90	IC TLC5733AIPM		L706	1-410-192-51	INDUCTOR	1μH
IC306	8-759-669-75	IC TLC2932IPW-E20		L708	1-410-192-51	INDUCTOR	1μH
IC307	8-759-196-93	IC TC7SH00FU-TE85R		L709	1-414-755-11	INDUCTOR	22μH
IC401	8-759-640-18	IC TMC57127-MMP-54		L710	1-414-755-11	INDUCTOR	22μH
IC403	8-759-666-02	IC MSM534031E-27GS-KR1		L714	1-410-663-31	INDUCTOR	10μH
IC503	8-759-485-79	IC TC7SET08FU(TE85R)		L715	1-410-671-31	INDUCTOR	47μH
IC505	8-752-088-27	IC CXA3266Q-T6		L716	1-414-755-11	INDUCTOR	22μH
IC506	8-759-460-29	IC PST9120NL		<TRANSISTOR>			
IC508	8-749-015-18	IC PQ07VZ012P		Q301	8-729-216-22	TRANSISTOR	2PB709AR-115
IC509	8-759-672-57	IC CXD9509AQ		Q302	8-729-422-33	TRANSISTOR	2PD601AR-115
IC510	8-752-369-84	IC CXD2309Q-T6		Q303	8-729-422-33	TRANSISTOR	2PD601AR-115
IC511	8-749-015-18	IC PQ07VZ012P		Q304	8-729-422-33	TRANSISTOR	2PD601AR-115
IC512	8-759-713-79	IC MB81F643242C-10FN		Q305	8-729-422-33	TRANSISTOR	2PD601AR-115
IC701	8-752-086-13	IC CXA2101AQ		Q306	8-729-422-33	TRANSISTOR	2PD601AR-115
IC703	8-759-009-51	IC MC14538BFEL		Q503	8-729-422-33	TRANSISTOR	2PD601AR-115
IC704	8-759-547-54	IC TC7SET00FU(TE85R)		Q504	8-729-216-22	TRANSISTOR	2PB709AR-115
IC705	8-759-485-79	IC TC7SET08FU(TE85R)		Q505	8-729-216-22	TRANSISTOR	2PB709AR-115
IC706	8-759-547-54	IC TC7SET00FU(TE85R)		Q506	8-729-216-22	TRANSISTOR	2PB709AR-115
IC707	8-759-272-74	IC 74VHC123ASJX		Q507	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
<COIL>				Q508	8-729-422-33	TRANSISTOR	2PD601AR-115
L301	1-414-757-11	INDUCTOR	100μH	Q509	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L302	1-414-757-11	INDUCTOR	100μH	Q510	8-729-422-33	TRANSISTOR	2PD601AR-115
L303	1-412-052-21	INDUCTOR	1μH	Q511	8-729-422-33	TRANSISTOR	2PD601AR-115
L304	1-414-754-11	INDUCTOR	10μH	Q512	8-729-162-45	TRANSISTOR	2SB624-T1BV5
L305	1-414-754-11	INDUCTOR	10μH	Q513	8-729-159-65	TRANSISTOR	2SD596-T1DV5
L306	1-410-663-31	INDUCTOR	10μH	Q514	8-729-162-45	TRANSISTOR	2SB624-T1BV5
L307	1-414-754-11	INDUCTOR	10μH	Q515	8-729-159-65	TRANSISTOR	2SD596-T1DV5
L308	1-414-757-11	INDUCTOR	100μH	Q517	8-729-216-22	TRANSISTOR	2PB709AR-115
L309	1-414-754-11	INDUCTOR	10μH	Q518	8-729-216-22	TRANSISTOR	2PB709AR-115
				Q519	8-729-216-22	TRANSISTOR	2PB709AR-115
				Q521	8-729-422-33	TRANSISTOR	2PD601AR-115
				Q522	8-729-422-33	TRANSISTOR	2PD601AR-115
				Q523	8-729-422-33	TRANSISTOR	2PD601AR-115



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q524	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R337	1-216-295-11	SHORT	0
Q701	8-729-422-33	TRANSISTOR	2PD601AR-115	R339	1-216-295-11	SHORT	0
Q703	8-729-422-33	TRANSISTOR	2PD601AR-115	R340	1-216-295-11	SHORT	0
Q705	8-729-422-33	TRANSISTOR	2PD601AR-115	R341	1-216-295-11	SHORT	0
Q707	8-729-216-22	TRANSISTOR	2PB709AR-115				
Q708	8-729-422-33	TRANSISTOR	2PD601AR-115	R342	1-216-295-11	SHORT	0
Q712	8-729-422-33	TRANSISTOR	2PD601AR-115	R343	1-216-311-00	RES-CHIP	6.8 5% 1/10W
Q713	8-729-422-33	TRANSISTOR	2PD601AR-115	R344	1-216-646-11	METAL CHIP	620 0.5% 1/10W
Q714	8-729-422-33	TRANSISTOR	2PD601AR-115	R345	1-216-635-11	METAL CHIP	220 0.5% 1/10W
Q715	8-729-422-33	TRANSISTOR	2PD601AR-115	R346	1-216-035-00	RES-CHIP	270 5% 1/10W
Q716	8-729-216-22	TRANSISTOR	2PB709AR-115	R347	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W
Q717	8-729-216-22	TRANSISTOR	2PB709AR-115	R348	1-216-635-11	METAL CHIP	220 0.5% 1/10W
Q718	8-729-422-33	TRANSISTOR	2PD601AR-115	R350	1-216-635-11	METAL CHIP	220 0.5% 1/10W
Q719	8-729-216-22	TRANSISTOR	2PB709AR-115	R352	1-216-295-11	SHORT	0
Q721	8-729-216-22	TRANSISTOR	2PB709AR-115	R353	1-216-045-00	RES-CHIP	680 5% 1/10W
Q722	8-729-216-22	TRANSISTOR	2PB709AR-115	R354	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q723	8-729-216-22	TRANSISTOR	2PB709AR-115	R355	1-216-025-11	RES-CHIP	100 5% 1/10W
Q724	8-729-422-33	TRANSISTOR	2PD601AR-115	R356	1-216-621-11	METAL CHIP	56 0.5% 1/10W
Q725	8-729-216-22	TRANSISTOR	2PB709AR-115	R357	1-216-621-11	METAL CHIP	56 0.5% 1/10W
Q727	8-729-422-33	TRANSISTOR	2PD601AR-115	R358	1-216-025-11	RES-CHIP	100 5% 1/10W
Q728	8-729-422-33	TRANSISTOR	2PD601AR-115	R359	1-216-623-11	METAL CHIP	68 0.5% 1/10W
Q729	8-729-216-22	TRANSISTOR	2PB709AR-115	R360	1-216-025-11	RES-CHIP	100 5% 1/10W
Q730	8-729-422-33	TRANSISTOR	2PD601AR-115	R361	1-216-047-91	RES-CHIP	820 5% 1/10W
Q731	8-729-422-33	TRANSISTOR	2PD601AR-115	R362	1-216-623-11	METAL CHIP	68 0.5% 1/10W
Q732	8-729-422-33	TRANSISTOR	2PD601AR-115	R363	1-216-025-11	RES-CHIP	100 5% 1/10W
Q733	8-729-216-22	TRANSISTOR	2PB709AR-115	R364	1-216-045-00	RES-CHIP	680 5% 1/10W
Q734	8-729-216-22	TRANSISTOR	2PB709AR-115	R365	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q735	8-729-216-22	TRANSISTOR	2PB709AR-115	R366	1-216-049-11	RES-CHIP	1K 5% 1/10W
<RESISTOR>				R367	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R301	1-216-113-00	RES-CHIP	470K 5% 1/10W	R368	1-216-117-00	RES-CHIP	680K 5% 1/10W
R302	1-216-081-00	RES-CHIP	22K 5% 1/10W	R369	1-216-295-11	SHORT	0
R303	1-216-025-11	RES-CHIP	100 5% 1/10W	R370	1-216-668-11	METAL CHIP	5.1K 0.5% 1/10W
R304	1-216-025-11	RES-CHIP	100 5% 1/10W	R371	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R305	1-216-033-00	RES-CHIP	220 5% 1/10W	R372	1-216-117-00	RES-CHIP	680K 5% 1/10W
R306	1-216-049-11	RES-CHIP	1K 5% 1/10W	R374	1-216-295-11	SHORT	0
R307	1-216-033-00	RES-CHIP	220 5% 1/10W	R375	1-216-077-91	RES-CHIP	15K 5% 1/10W
R308	1-216-037-00	RES-CHIP	330 5% 1/10W	R376	1-216-089-11	RES-CHIP	47K 5% 1/10W
R309	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R377	1-216-077-91	RES-CHIP	15K 5% 1/10W
R310	1-216-062-00	RES-CHIP	3.6K 5% 1/10W	R378	1-216-077-91	RES-CHIP	15K 5% 1/10W
R311	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W	R379	1-216-037-00	RES-CHIP	330 5% 1/10W
R312	1-216-675-91	METAL CHIP	10K 0.5% 1/10W	R380	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R313	1-216-113-00	RES-CHIP	470K 5% 1/10W	R381	1-216-037-00	RES-CHIP	330 5% 1/10W
R314	1-216-651-11	METAL CHIP	1K 0.5% 1/10W	R382	1-216-295-11	SHORT	0
R315	1-216-073-00	RES-CHIP	10K 5% 1/10W	R383	1-216-295-11	SHORT	0
R317	1-216-049-11	RES-CHIP	1K 5% 1/10W	R384	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R319	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R385	1-216-624-11	METAL CHIP	75 0.5% 1/10W
R320	1-216-295-11	SHORT	0	R386	1-216-624-11	METAL CHIP	75 0.5% 1/10W
R321	1-216-295-11	SHORT	0	R387	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R322	1-216-295-11	SHORT	0	R388	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R323	1-216-295-11	SHORT	0	R389	1-216-009-91	RES-CHIP	22 5% 1/10W
R325	1-216-295-11	SHORT	0	R390	1-216-295-11	SHORT	0
R328	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R391	1-216-295-11	SHORT	0
R329	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R392	1-216-037-00	RES-CHIP	330 5% 1/10W
R330	1-216-049-11	RES-CHIP	1K 5% 1/10W	R393	1-216-295-11	SHORT	0
R334	1-216-295-11	SHORT	0	R395	1-216-295-11	SHORT	0
				R396	1-216-295-11	SHORT	0
				R397	1-216-017-91	RES-CHIP	47 5% 1/10W
				R398	1-216-017-91	RES-CHIP	47 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R402	1-216-295-11	SHORT	0		R573	1-216-295-11	SHORT	0	
R404	1-216-295-11	SHORT	0		R576	1-216-653-11	METAL CHIP	1.2K	0.5% 1/10W
					R578	1-216-675-91	METAL CHIP	10K	0.5% 1/10W
R405	1-216-295-11	SHORT	0		R579	1-216-651-11	METAL CHIP	1K	0.5% 1/10W
R407	1-216-295-11	SHORT	0		R580	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R408	1-216-295-11	SHORT	0						
R409	1-216-295-11	SHORT	0		R581	1-216-073-00	RES-CHIP	10K	5% 1/10W
R410	1-216-295-11	SHORT	0		R582	1-216-073-00	RES-CHIP	10K	5% 1/10W
					R584	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R411	1-216-295-11	SHORT	0		R585	1-216-295-11	SHORT	0	
R412	1-216-295-11	SHORT	0		R586	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R413	1-216-295-11	SHORT	0						
R414	1-216-295-11	SHORT	0		R590	1-216-295-11	SHORT	0	
R415	1-216-609-11	RES-CHIP	18	5% 1/10W	R591	1-216-073-00	RES-CHIP	10K	5% 1/10W
					R592	1-216-073-00	RES-CHIP	10K	5% 1/10W
R416	1-216-295-11	SHORT	0		R594	1-216-009-91	RES-CHIP	22	5% 1/10W
R419	1-216-295-11	SHORT	0		R595	1-216-009-91	RES-CHIP	22	5% 1/10W
R421	1-216-001-00	RES-CHIP	10	5% 1/10W					
R422	1-216-057-00	RES-CHIP	2.2K	5% 1/10W	R596	1-216-049-11	RES-CHIP	1K	5% 1/10W
R423	1-216-295-11	SHORT	0		R597	1-216-049-11	RES-CHIP	1K	5% 1/10W
					R598	1-216-049-11	RES-CHIP	1K	5% 1/10W
R425	1-216-005-00	RES-CHIP	15	5% 1/10W	R599	1-216-009-91	RES-CHIP	22	5% 1/10W
R426	1-216-001-00	RES-CHIP	10	5% 1/10W	R600	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R427	1-216-295-11	SHORT	0						
R429	1-216-295-11	SHORT	0		R601	1-216-659-11	METAL CHIP	2.2K	0.5% 1/10W
R430	1-216-295-11	SHORT	0		R602	1-216-663-11	METAL CHIP	3.3K	0.5% 1/10W
					R603	1-216-626-11	METAL CHIP	91	0.5% 1/10W
R431	1-216-295-11	SHORT	0		R604	1-216-626-11	METAL CHIP	91	0.5% 1/10W
R432	1-216-295-11	SHORT	0		R605	1-216-626-11	METAL CHIP	91	0.5% 1/10W
R433	1-216-295-11	SHORT	0						
R505	1-216-013-00	RES-CHIP	33	5% 1/10W	R606	1-216-073-00	RES-CHIP	10K	5% 1/10W
R510	1-216-663-11	METAL CHIP	3.3K	0.5% 1/10W	R607	1-216-073-00	RES-CHIP	10K	5% 1/10W
					R608	1-216-073-00	RES-CHIP	10K	5% 1/10W
R514	1-216-295-11	SHORT	0		R609	1-216-073-00	RES-CHIP	10K	5% 1/10W
R516	1-216-656-11	METAL CHIP	1.6K	0.5% 1/10W	R610	1-216-073-00	RES-CHIP	10K	5% 1/10W
R518	1-216-295-11	SHORT	0						
R524	1-216-049-11	RES-CHIP	1K	5% 1/10W	R611	1-216-295-11	SHORT	0	
R525	1-216-057-00	RES-CHIP	2.2K	5% 1/10W	R612	1-216-295-11	SHORT	0	
					R614	1-216-295-11	SHORT	0	
R537	1-216-073-00	RES-CHIP	10K	5% 1/10W	R615	1-216-035-00	RES-CHIP	270	5% 1/10W
R538	1-216-025-11	RES-CHIP	100	5% 1/10W	R616	1-216-025-11	RES-CHIP	100	5% 1/10W
R539	1-216-025-11	RES-CHIP	100	5% 1/10W					
R540	1-216-025-11	RES-CHIP	100	5% 1/10W	R617	1-216-025-11	RES-CHIP	100	5% 1/10W
R541	1-216-025-11	RES-CHIP	100	5% 1/10W	R618	1-216-025-11	RES-CHIP	100	5% 1/10W
					R619	1-216-025-11	RES-CHIP	100	5% 1/10W
R542	1-216-025-11	RES-CHIP	100	5% 1/10W	R620	1-216-025-11	RES-CHIP	100	5% 1/10W
R543	1-216-674-11	METAL CHIP	9.1K	0.5% 1/10W	R621	1-216-025-11	RES-CHIP	100	5% 1/10W
R544	1-216-674-11	METAL CHIP	9.1K	0.5% 1/10W					
R546	1-216-295-11	SHORT	0		R623	1-216-045-00	RES-CHIP	680	5% 1/10W
R548	1-216-295-11	SHORT	0		R624	1-216-049-11	RES-CHIP	1K	5% 1/10W
					R625	1-216-049-11	RES-CHIP	1K	5% 1/10W
R549	1-216-097-11	RES-CHIP	100K	5% 1/10W	R626	1-216-295-11	SHORT	0	
R553	1-216-295-11	SHORT	0		R627	1-216-025-11	RES-CHIP	100	5% 1/10W
R557	1-216-029-00	RES-CHIP	150	5% 1/10W					
R558	1-216-041-00	RES-CHIP	470	5% 1/10W	R628	1-216-025-11	RES-CHIP	100	5% 1/10W
R559	1-216-001-00	RES-CHIP	10	5% 1/10W	R629	1-216-295-11	SHORT	0	
					R630	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R560	1-216-668-11	METAL CHIP	5.1K	0.5% 1/10W	R631	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R561	1-216-647-11	METAL CHIP	680	0.5% 1/10W	R632	1-216-025-11	RES-CHIP	100	5% 1/10W
R563	1-216-049-11	RES-CHIP	1K	5% 1/10W					
R564	1-216-049-11	RES-CHIP	1K	5% 1/10W	R633	1-216-653-11	METAL CHIP	1.2K	0.5% 1/10W
R565	1-216-295-11	SHORT	0		R634	1-216-631-11	METAL CHIP	150	0.5% 1/10W
					R635	1-216-295-11	SHORT	0	
R566	1-216-295-11	SHORT	0		R636	1-216-295-11	SHORT	0	
R567	1-216-295-11	SHORT	0		R637	1-216-671-11	METAL CHIP	6.8K	0.5% 1/10W
R568	1-216-295-11	SHORT	0						
R570	1-216-009-91	RES-CHIP	22	5% 1/10W	R638	1-216-651-11	METAL CHIP	1K	0.5% 1/10W
R572	1-216-009-91	RES-CHIP	22	5% 1/10W	R639	1-216-025-11	RES-CHIP	100	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R640	1-216-049-11	RES-CHIP	1K 5% 1/10W	R697	1-216-009-91	RES-CHIP	22 5% 1/10W
R641	1-216-025-11	RES-CHIP	100 5% 1/10W	R698	1-216-295-11	SHORT	0
R642	1-216-049-11	RES-CHIP	1K 5% 1/10W	R702	1-216-295-11	SHORT	0
R643	1-216-009-91	RES-CHIP	22 5% 1/10W	R705	1-216-639-11	METAL CHIP	330 0.5% 1/10W
R644	1-216-009-91	RES-CHIP	22 5% 1/10W	R706	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
R645	1-216-009-91	RES-CHIP	22 5% 1/10W	R707	1-216-025-11	RES-CHIP	100 5% 1/10W
R646	1-216-009-91	RES-CHIP	22 5% 1/10W	R708	1-216-295-11	SHORT	0
R647	1-216-009-91	RES-CHIP	22 5% 1/10W	R709	1-216-683-11	METAL CHIP	22 0.5% 1/10W
R648	1-216-009-91	RES-CHIP	22 5% 1/10W	R710	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R649	1-216-009-91	RES-CHIP	22 5% 1/10W	R712	1-216-647-11	METAL CHIP	680 0.5% 1/10W
R650	1-216-009-91	RES-CHIP	22 5% 1/10W	R713	1-216-647-11	METAL CHIP	680 0.5% 1/10W
R651	1-216-295-11	SHORT	0	R714	1-216-639-11	METAL CHIP	330 0.5% 1/10W
R652	1-216-009-91	RES-CHIP	22 5% 1/10W	R716	1-216-025-11	RES-CHIP	100 5% 1/10W
R653	1-216-009-91	RES-CHIP	22 5% 1/10W	R717	1-216-017-91	RES-CHIP	47 5% 1/10W
R654	1-216-009-91	RES-CHIP	22 5% 1/10W	R719	1-216-684-91	METAL CHIP	24K 0.5% 1/10W
R655	1-216-009-91	RES-CHIP	22 5% 1/10W	R720	1-216-672-11	METAL CHIP	7.5K 0.5% 1/10W
R656	1-216-009-91	RES-CHIP	22 5% 1/10W	R721	1-216-025-11	RES-CHIP	100 5% 1/10W
R657	1-216-009-91	RES-CHIP	22 5% 1/10W	R722	1-216-017-91	RES-CHIP	47 5% 1/10W
R658	1-216-009-91	RES-CHIP	22 5% 1/10W	R723	1-216-025-11	RES-CHIP	100 5% 1/10W
R659	1-216-009-91	RES-CHIP	22 5% 1/10W	R725	1-216-025-11	RES-CHIP	100 5% 1/10W
R660	1-216-009-91	RES-CHIP	22 5% 1/10W	R726	1-216-295-11	SHORT	0
R661	1-216-009-91	RES-CHIP	22 5% 1/10W	R728	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R662	1-216-295-11	SHORT	0	R731	1-216-017-91	RES-CHIP	47 5% 1/10W
R663	1-216-009-91	RES-CHIP	22 5% 1/10W	R733	1-216-017-91	RES-CHIP	47 5% 1/10W
R664	1-216-009-91	RES-CHIP	22 5% 1/10W	R735	1-216-017-91	RES-CHIP	47 5% 1/10W
R665	1-216-009-91	RES-CHIP	22 5% 1/10W	R737	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
R666	1-216-009-91	RES-CHIP	22 5% 1/10W	R738	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R667	1-216-009-91	RES-CHIP	22 5% 1/10W	R739	1-216-295-11	SHORT	0
R668	1-216-009-91	RES-CHIP	22 5% 1/10W	R740	1-216-017-91	RES-CHIP	47 5% 1/10W
R669	1-216-009-91	RES-CHIP	22 5% 1/10W	R741	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R670	1-216-009-91	RES-CHIP	22 5% 1/10W	R742	1-216-045-00	RES-CHIP	680 5% 1/10W
R671	1-216-009-91	RES-CHIP	22 5% 1/10W	R743	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R672	1-216-009-91	RES-CHIP	22 5% 1/10W	R747	1-216-017-91	RES-CHIP	47 5% 1/10W
R673	1-216-009-91	RES-CHIP	22 5% 1/10W	R748	1-216-041-00	RES-CHIP	470 5% 1/10W
R674	1-216-009-91	RES-CHIP	22 5% 1/10W	R749	1-216-017-91	RES-CHIP	47 5% 1/10W
R675	1-216-009-91	RES-CHIP	22 5% 1/10W	R750	1-216-025-11	RES-CHIP	100 5% 1/10W
R676	1-216-009-91	RES-CHIP	22 5% 1/10W	R751	1-216-025-11	RES-CHIP	100 5% 1/10W
R677	1-216-009-91	RES-CHIP	22 5% 1/10W	R752	1-216-017-91	RES-CHIP	47 5% 1/10W
R678	1-216-009-91	RES-CHIP	22 5% 1/10W	R753	1-216-017-91	RES-CHIP	47 5% 1/10W
R679	1-216-295-11	SHORT	0	R754	1-216-025-11	RES-CHIP	100 5% 1/10W
R680	1-216-009-91	RES-CHIP	22 5% 1/10W	R755	1-216-017-91	RES-CHIP	47 5% 1/10W
R681	1-216-009-91	RES-CHIP	22 5% 1/10W	R756	1-216-025-11	RES-CHIP	100 5% 1/10W
R682	1-216-009-91	RES-CHIP	22 5% 1/10W	R757	1-216-041-00	RES-CHIP	470 5% 1/10W
R683	1-216-009-91	RES-CHIP	22 5% 1/10W	R758	1-216-049-11	RES-CHIP	1K 5% 1/10W
R684	1-216-009-91	RES-CHIP	22 5% 1/10W	R759	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R685	1-216-009-91	RES-CHIP	22 5% 1/10W	R760	1-216-133-00	RES-CHIP	3.3M 5% 1/10W
R686	1-216-009-91	RES-CHIP	22 5% 1/10W	R761	1-216-017-91	RES-CHIP	47 5% 1/10W
R687	1-216-009-91	RES-CHIP	22 5% 1/10W	R762	1-216-037-00	RES-CHIP	330 5% 1/10W
R688	1-216-295-11	SHORT	0	R763	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
R689	1-216-009-91	RES-CHIP	22 5% 1/10W	R764	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R690	1-216-009-91	RES-CHIP	22 5% 1/10W	R765	1-216-009-91	RES-CHIP	22 5% 1/10W
R691	1-216-009-91	RES-CHIP	22 5% 1/10W	R766	1-218-768-11	METAL CHIP	470K 0.5% 1/10W
R692	1-216-009-91	RES-CHIP	22 5% 1/10W	R767	1-216-073-00	RES-CHIP	10K 5% 1/10W
R693	1-216-009-91	RES-CHIP	22 5% 1/10W	R768	1-216-009-91	RES-CHIP	22 5% 1/10W
R694	1-216-009-91	RES-CHIP	22 5% 1/10W	R770	1-216-025-11	RES-CHIP	100 5% 1/10W
R695	1-216-009-91	RES-CHIP	22 5% 1/10W	R771	1-216-025-11	RES-CHIP	100 5% 1/10W
R696	1-216-009-91	RES-CHIP	22 5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R772	1-216-025-11	RES-CHIP	100 5% 1/10W	R838	1-216-043-91	RES-CHIP	560 5% 1/10W
R773	1-216-691-11	METAL CHIP	47K 0.5% 1/10W	R839	1-216-295-11	SHORT	0
R774	1-218-768-11	METAL CHIP	470K 0.5% 1/10W	R840	1-216-025-11	RES-CHIP	100 5% 1/10W
R775	1-216-025-11	RES-CHIP	100 5% 1/10W	R841	1-216-295-11	SHORT	0
R776	1-216-295-11	SHORT	0	R842	1-216-025-11	RES-CHIP	100 5% 1/10W
R777	1-216-073-00	RES-CHIP	10K 5% 1/10W	R843	1-216-025-11	RES-CHIP	100 5% 1/10W
R778	1-216-025-11	RES-CHIP	100 5% 1/10W	R857	1-216-025-11	RES-CHIP	100 5% 1/10W
R779	1-216-045-00	RES-CHIP	680 5% 1/10W	R860	1-216-025-11	RES-CHIP	100 5% 1/10W
R781	1-216-025-11	RES-CHIP	100 5% 1/10W	R874	1-216-025-11	RES-CHIP	100 5% 1/10W
R783	1-216-025-11	RES-CHIP	100 5% 1/10W	R879	1-216-295-11	SHORT	0
R785	1-216-009-91	RES-CHIP	22 5% 1/10W	R880	1-216-033-00	RES-CHIP	220 5% 1/10W
R786	1-216-073-00	RES-CHIP	10K 5% 1/10W	R881	1-216-631-11	METAL CHIP	150 0.5% 1/10W
R787	1-216-009-91	RES-CHIP	22 5% 1/10W	R883	1-216-652-11	METAL CHIP	1.1K 0.5% 1/10W
R788	1-216-025-11	RES-CHIP	100 5% 1/10W	R884	1-216-041-00	RES-CHIP	470 5% 1/10W
R789	1-216-025-11	RES-CHIP	100 5% 1/10W	R885	1-216-295-11	SHORT	0
R790	1-216-025-11	RES-CHIP	100 5% 1/10W	R886	1-216-033-00	RES-CHIP	220 5% 1/10W
R791	1-216-045-00	RES-CHIP	680 5% 1/10W	R887	1-216-631-11	METAL CHIP	150 0.5% 1/10W
R792	1-216-025-11	RES-CHIP	100 5% 1/10W	R889	1-216-652-11	METAL CHIP	1.1K 0.5% 1/10W
R795	1-216-009-91	RES-CHIP	22 5% 1/10W	R890	1-216-041-00	RES-CHIP	470 5% 1/10W
R796	1-216-009-91	RES-CHIP	22 5% 1/10W	R891	1-216-295-11	SHORT	0
R799	1-216-295-11	SHORT	0	R892	1-216-033-00	RES-CHIP	220 5% 1/10W
R800	1-216-295-11	SHORT	0	R893	1-216-631-11	METAL CHIP	150 0.5% 1/10W
R803	1-216-025-11	RES-CHIP	100 5% 1/10W	R895	1-216-652-11	METAL CHIP	1.1K 0.5% 1/10W
R804	1-216-025-11	RES-CHIP	100 5% 1/10W	R896	1-216-041-00	RES-CHIP	470 5% 1/10W
R805	1-216-025-11	RES-CHIP	100 5% 1/10W	R897	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R806	1-216-025-11	RES-CHIP	100 5% 1/10W	R898	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R807	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R899	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R808	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6001	1-216-295-11	SHORT	0
R809	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6301	1-216-009-91	RES-CHIP	22 5% 1/10W
R810	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6502	1-216-295-11	SHORT	0
R811	1-216-025-11	RES-CHIP	100 5% 1/10W	R6504	1-216-049-11	RES-CHIP	1K 5% 1/10W
R812	1-216-025-11	RES-CHIP	100 5% 1/10W	R6505	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R813	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6506	1-216-049-11	RES-CHIP	1K 5% 1/10W
R814	1-216-009-91	RES-CHIP	22 5% 1/10W	R6507	1-216-607-11	METAL CHIP	15 0.5% 1/10W
R815	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6508	1-216-001-00	RES-CHIP	10 5% 1/10W
R816	1-216-025-11	RES-CHIP	100 5% 1/10W	R6509	1-216-049-11	RES-CHIP	1K 5% 1/10W
R817	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R6511	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R818	1-216-025-11	RES-CHIP	100 5% 1/10W	R6512	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R819	1-216-025-11	RES-CHIP	100 5% 1/10W	R6513	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R820	1-216-009-91	RES-CHIP	22 5% 1/10W	R6514	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R821	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6521	1-216-001-00	RES-CHIP	10 5% 1/10W
R822	1-216-025-11	RES-CHIP	100 5% 1/10W	R6524	1-216-295-11	SHORT	0
R823	1-216-679-11	METAL CHIP	15K 0.5% 1/10W	R6525	1-216-631-11	METAL CHIP	150 0.5% 1/10W
R824	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6526	1-216-049-11	RES-CHIP	1K 5% 1/10W
R825	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6527	1-216-049-11	RES-CHIP	1K 5% 1/10W
R826	1-216-025-11	RES-CHIP	100 5% 1/10W	R6528	1-216-049-11	RES-CHIP	1K 5% 1/10W
R827	1-216-693-11	METAL CHIP	56K 0.5% 1/10W	R6531	1-216-295-11	SHORT	0
R828	1-216-045-00	RES-CHIP	680 5% 1/10W	R6539	1-216-642-11	METAL CHIP	430 0.5% 1/10W
R829	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6542	1-216-049-11	RES-CHIP	1K 5% 1/10W
R830	1-216-295-11	SHORT	0	R6703	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R831	1-216-025-11	RES-CHIP	100 5% 1/10W	R6704	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R832	1-216-045-00	RES-CHIP	680 5% 1/10W	R6705	1-216-295-11	SHORT	0
R833	1-216-295-11	SHORT	0	R6714	1-216-049-11	RES-CHIP	1K 5% 1/10W
R834	1-216-295-11	SHORT	0	R6715	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R835	1-216-295-11	SHORT	0	R6716	1-216-295-11	SHORT	0
R836	1-216-009-91	RES-CHIP	22 5% 1/10W	R6717	1-216-295-11	SHORT	0
R837	1-216-295-11	SHORT	0	R6718	1-216-295-11	SHORT	0

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R6719	1-216-295-11	SHORT 0		C1615	1-126-948-11	ELECT 100μF 20% 35V	
R6720	1-216-295-11	SHORT 0		C1616	1-137-605-11	MYLAR 0.01μF 10% 250V	
R6721	1-216-295-11	SHORT 0		C1617	1-126-965-11	ELECT 22μF 20% 50V	
<RESISTER BLOCK>				C1618	1-136-165-00	FILM 0.1μF 5% 50V	
RB401	1-233-576-11	RES, CHIP NETWORK 100		C1620	1-126-960-11	ELECT 1μF 20% 50V	
RB402	1-233-576-11	RES, CHIP NETWORK 100		C1621	1-126-940-11	ELECT 330μF 20% 25V	
RB403	1-233-576-11	RES, CHIP NETWORK 100		C1622	1-126-961-11	ELECT 2.2μF 20% 50V	
RB404	1-233-576-11	RES, CHIP NETWORK 100		C1623	1-136-479-11	FILM 0.001μF 2% 50V	
RB405	1-233-576-11	RES, CHIP NETWORK 100		C1624	1-126-962-11	ELECT 3.3μF 20% 50V	
RB406	1-233-576-11	RES, CHIP NETWORK 100		C1625	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
RB407	1-239-711-91	NETWORK RESISTOR (CHIP)0		C1626	1-117-703-41	CERAMIC 0.0047μF 99% 250V	
RB408	1-239-711-91	NETWORK RESISTOR (CHIP)0		C1627	1-125-969-91	CERAMIC 680pF 10% 1KV	
RB415	1-233-575-11	RES, CHIP NETWORK 22		C1628	1-125-969-91	CERAMIC 680pF 10% 1KV	
RB416	1-233-575-11	RES, CHIP NETWORK 22		C1629	1-135-946-81	FILM 47000pF 3% 800V	
RB417	1-233-575-11	RES, CHIP NETWORK 22		C1630	1-126-939-11	ELECT 10000μF 20% 16V	
RB418	1-233-575-11	RES, CHIP NETWORK 22		C1631	1-126-942-61	ELECT 1000μF 20% 25V	
RB419	1-233-575-11	RES, CHIP NETWORK 22		C1632	1-126-964-11	ELECT 10μF 20% 50V	
RB420	1-233-575-11	RES, CHIP NETWORK 22		C1633	1-104-664-11	ELECT 47μF 20% 25V	
RB507	1-233-576-11	RES, CHIP NETWORK 100		C1634	1-128-548-11	ELECT 4700μF 20% 25V	
RB508	1-233-576-11	RES, CHIP NETWORK 100		C1635	1-128-548-11	ELECT 4700μF 20% 25V	
RB509	1-233-576-11	RES, CHIP NETWORK 100		C1636	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
RB510	1-233-576-11	RES, CHIP NETWORK 100		C1637	1-126-929-11	ELECT 4700μF 20% 10V	
RB511	1-233-576-11	RES, CHIP NETWORK 100		C1638	1-126-932-51	ELECT 15000μF 20% 10V	
RB512	1-233-576-11	RES, CHIP NETWORK 100		C1639	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
<CRYSTAL>				C1640	1-104-664-11	ELECT 47μF 20% 25V	
X402	1-781-855-21	OSCILLATOR, CRYSTAL		C1641	1-104-664-11	ELECT 47μF 20% 25V	
X501	1-781-535-21	VIBRATOR, CRYSTAL (17.26272MHz)		C1642	1-126-964-11	ELECT 10μF 20% 50V	
X502	1-781-649-21	OSCILLATOR, CRYSTAL (54.00MHz)		C1643	1-104-664-11	ELECT 47μF 20% 25V	
*****				C1644	1-104-664-11	ELECT 47μF 20% 25V	
* A-1316-525-A G BOARD, COMPLETE				C1645	1-104-664-11	ELECT 47μF 20% 25V	
*****				C1646	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
1-533-223-11	HOLDER, FUSE (F1601)			C1647	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			C1648	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
4-382-854-01	SCREW (M3X8), P, SW (+)			C1649	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
<CAPACITOR>				C1650	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C1602	1-163-005-11	CERAMIC CHIP 470pF 10% 50V		C1651	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C1603	1-107-678-11	ELECT 4.7μF 20% 450V		C1652	1-126-964-11	ELECT 10μF 20% 50V	
C1604 Δ	1-161-830-00	CERAMIC 0.0047μF 99% 500V		C1653	1-126-967-11	ELECT 47μF 20% 50V	
C1605 Δ	1-161-830-00	CERAMIC 0.0047μF 99% 500V		C1654	1-104-664-11	ELECT 47μF 20% 25V	
C1606	1-163-809-11	CERAMIC CHIP 0.047μF 10% 25V		C1655	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
C1607 Δ	1-161-830-00	CERAMIC 0.0047μF 99% 500V		C1656	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
C1608 Δ	1-161-830-00	CERAMIC 0.0047μF 99% 500V		C1657	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
C1609	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V		C1658	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
C1610	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V		C1659	1-137-194-81	FILM 0.47μF 5% 50V	
C1611	1-117-752-11	ELECT(BLOCK) 330μF 20% 450V		C1660 Δ	1-104-708-11	MYLAR 0.47μF 20% 250V	
C1612	1-117-752-11	ELECT(BLOCK) 330μF 20% 450V		C1661 Δ	1-113-889-11	CERAMIC 1000pF 20% 250V	
C1613	1-126-964-11	ELECT 10μF 20% 50V		C1662 Δ	1-113-889-11	CERAMIC 1000pF 20% 250V	
C1614	1-126-967-11	ELECT 47μF 20% 50V		C1664 Δ	1-104-708-11	MYLAR 0.47μF 20% 250V	
				C1666	1-109-843-11	CERAMIC 33pF 5% 2KV	
				C1667	1-109-843-11	CERAMIC 33pF 5% 2KV	
				C1668	1-109-843-11	CERAMIC 33pF 5% 2KV	
				C1669	1-109-843-11	CERAMIC 33pF 5% 2KV	
				C1670	1-125-497-11	ELECT(BLOCK) 100μF 20% 400V	
				C1671	1-125-497-11	ELECT(BLOCK) 100μF 20% 400V	
				C1672	1-161-830-00	CERAMIC 0.0047μF 500V	
				C1674	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
				C1675	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>				<FERRITE BEAD>			
CN1601*	1-580-843-11	PIN, CONNECTOR (POWER)		FB1601	1-410-397-21	FERRITE 1.1μH	
CN1602*	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		FB1602	1-410-397-21	FERRITE 1.1μH	
CN1603*	1-564-511-61	PLUG, CONNECTOR 8P		FB1603	1-410-397-21	FERRITE 1.1μH	
CN1604*	1-580-838-11	PIN, CONNECTOR (PC BOARD) 4P		FB1604	1-410-397-21	FERRITE 1.1μH	
CN1605*	1-564-509-11	PLUG, CONNECTOR 6P		FB1605	1-410-397-21	FERRITE 1.1μH	
CN1606*	1-564-510-11	PLUG, CONNECTOR 7P		FB1606	1-410-397-21	FERRITE 1.1μH	
CN1607*	1-564-516-11	PLUG, CONNECTOR 13P		<IC>			
CN1609	1-695-915-11	TAB (CONTACT)		IC1601	8-759-670-30	IC MCZ3001D	
CN1610	1-695-915-11	TAB (CONTACT)		IC1602	8-759-198-31	IC μPC1093J-1-T	
CN1611	1-695-915-11	TAB (CONTACT)		IC1603	8-759-198-31	IC μPC1093J-1-T	
CN1612	1-695-915-11	TAB (CONTACT)		<COIL>			
CN1613*	1-564-512-11	PLUG, CONNECTOR 9P		L1601	1-412-525-31	INDUCTOR 10μH	
CN1614*	1-564-506-11	PLUG, CONNECTOR 3P		L1604	1-412-525-31	INDUCTOR 10μH	
CN1615*	1-564-507-11	PLUG, CONNECTOR 4P		L1606	1-412-525-31	INDUCTOR 10μH	
CN1616*	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		L1607	1-412-525-31	INDUCTOR 10μH	
<DIODE>				L1608	1-412-525-31	INDUCTOR 10μH	
D1601	8-719-077-76	DIODE D2SB60A-F04		L1609	1-406-659-11	INDUCTOR 10μH	
D1602 Δ	8-719-022-99	DIODE D6SB60L		L1610	1-406-971-21	INDUCTOR 10μH	
D1603	8-719-106-89	DIODE RD15M-T1B2		L1612	1-406-659-11	INDUCTOR 10μH	
D1604	8-719-988-61	DIODE 1SS355TE-17		L1616	1-406-984-21	INDUCTOR 1.5mH	
D1605	8-719-948-45	DIODE ERA22-08TP3		<PHOTO COUPLER>			
D1606	8-719-105-92	DIODE RD5.6M-T1B3		PH1601	8-749-010-64	PHOTO COUPLER PC123FY2	
D1607	8-719-979-64	DIODE μF4005PKG23		<IC LINK>			
D1608	8-719-060-90	DIODE S2L60F		PS1601 Δ	1-576-390-91	LINK, IC 2.5A	
D1609	8-719-063-73	DIODE D1NL20U-TR		PS1602 Δ	1-576-390-91	LINK, IC 2.5A	
D1610	8-719-510-48	DIODE D1N20R-TR		<TRANSISTOR>			
D1612	8-719-060-90	DIODE S2L60F		Q1601	8-729-046-40	TRANSISTOR 2SK2663	
D1613	8-719-510-02	DIODE D1NS4-TA2		Q1602	8-729-023-22	TRANSISTOR 2SD2114KT146	
D1614	8-719-510-02	DIODE D1NS4-TA2		Q1603	8-729-023-22	TRANSISTOR 2SD2114KT146	
D1616	8-719-510-02	DIODE D1NS4-TA2		Q1604	8-729-216-22	TRANSISTOR 2PB709AR-115	
D1617	8-719-510-02	DIODE D1NS4-TA2		Q1605	8-729-023-22	TRANSISTOR 2SD2114KT146	
D1618	8-719-988-61	DIODE 1SS355TE-17		Q1606	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
D1619	8-719-105-91	DIODE RD5.6M-T1B2		Q1607	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
D1620	8-719-055-40	DIODE FCQ30A04		Q1608	8-729-216-22	TRANSISTOR 2PB709AR-115	
D1621	8-719-018-84	DIODE D2S6MTA1		<RESISTOR>			
D1623	8-719-055-40	DIODE FCQ30A04		R1601	1-260-302-51	CARBON 6.8 5% 1/2W	
D1624	8-719-510-09	DIODE D10SC6M		R1603	1-216-045-00	RES-CHIP 680 5% 1/10W	
D1625	8-719-988-31	DIODE D10SC6MR		R1604	1-240-205-91	CARBON 22M 5% 1/2W	
D1626	8-719-510-12	DIODE D10SC4M-F		R1605	1-216-009-91	RES-CHIP 22 5% 1/10W	
D1629	8-719-988-61	DIODE 1SS355TE-17		R1606	1-249-389-11	CARBON 4.7 5% 1/4W	
D1630	8-719-988-61	DIODE 1SS355TE-17		R1607	1-249-417-11	CARBON 1K 5% 1/4W	
D1631 Δ	8-719-988-61	DIODE 1SS355TE-17		R1608	1-216-073-00	RES-CHIP 10K 5% 1/10W	
D1632	1-216-295-11	SHORT 0		R1609	1-216-041-00	RES-CHIP 470 5% 1/10W	
D1635	8-719-060-90	DIODE S2L60F		<FUSE>			
D1636	8-719-060-90	DIODE S2L60F		F1601 Δ	1-576-232-11	FUSE (H.B.C.) 5A/250V	
D1638	8-719-988-61	DIODE 1SS355TE-17					
D1639	8-719-510-02	DIODE D1NS4-TA2					
D1640	8-719-105-91	DIODE RD5.6M-T1B2					
D1641	8-719-988-61	DIODE 1SS355TE-17					
D1642	8-719-988-61	DIODE 1SS355TE-17					

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1611	1-260-131-11	CARBON	470K 5% 1/2W
R1612	1-215-485-00	METAL	470K 1% 1/4W
R1613 Δ	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R1616	1-249-393-11	CARBON	10 5% 1/4W
R1617	1-249-377-11	CARBON	0.47 5% 1/4W
R1618	1-260-288-11	CARBON	0.47 5% 1/2W
R1619 Δ	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R1620	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1621	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1622	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1623	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1624	1-215-481-00	METAL	330K 1% 1/4W
R1625	1-215-481-00	METAL	330K 1% 1/4W
R1626	1-215-481-00	METAL	330K 1% 1/4W
R1627	1-215-859-00	METAL OXIDE	22 5% 1W
R1628	1-216-679-11	METAL CHIP	15K 0.5% 1/10W
R1629	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R1630	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1631	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1632	1-249-393-11	CARBON	10 5% 1/4W
R1633	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1634	1-249-393-11	CARBON	10 5% 1/4W
R1635	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1638	1-202-965-11	METAL	0.02 10% 2W
R1640	1-216-350-11	METAL OXIDE	1.2 5% 1W
R1641	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1642	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1643	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
R1644	1-216-025-11	RES-CHIP	100 5% 1/10W
R1645	1-216-017-91	RES-CHIP	47 5% 1/10W
R1646	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1647	1-216-041-00	RES-CHIP	470 5% 1/10W
R1648	1-216-089-11	RES-CHIP	47K 5% 1/10W
R1649	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1650	1-216-658-11	METAL CHIP	2K 0.5% 1/10W
R1651 Δ	1-205-998-11	CEMENTED	1 5% 10W
R1652 Δ	1-205-998-11	CEMENTED	1 5% 10W
R1653 Δ	1-202-719-00	SOLID	1M 20% 1/2W
R1654	1-249-377-11	CARBON	0.47 5% 1/4W
R1655	1-249-377-11	CARBON	0.47 5% 1/4W
R1656	1-215-904-11	METAL OXIDE	100K 5% 2W
R1657	1-215-904-11	METAL OXIDE	100K 5% 2W
R1658	1-216-295-11	SHORT	0
R1660	1-216-295-11	SHORT	0
R1662 Δ	1-218-265-11	METAL	8.2M 5% 1W
R1664	1-216-295-11	SHORT	0
R1665	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R1666	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R1667	1-216-673-11	METAL CHIP	8.2K 0.5% 1/10W
R1668	1-216-676-11	METAL CHIP	11K 0.5% 1/10W
R1669	1-216-041-00	RES-CHIP	470 5% 1/10W
R1670	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R1671	1-216-041-00	RES-CHIP	470 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<RELAY>	
	RY1601 Δ	1-755-388-11 RELAY (AC POWER)	
		<TRANSFORMER>	
	T1601 Δ	1-431-852-11 TRANSFORMER, CONVERTER (SRT)	
	T1603 Δ	1-435-512-11 TRANSFORMER, CONVERTER (PIT)	
	T1606 Δ	1-433-488-11 TRANSFORMER, LINE FILTER	
		<THERMISTOR>	
	TH1601	1-803-586-11 THERMISTOR, NTC	
		<VARISTOR>	
	VD1601 Δ	1-803-830-11 VARISTOR (ERZV14D621)	
	VD1602 Δ	1-803-830-11 VARISTOR (ERZV14D621)	

	* A-1372-879-A	H1 MOUNT	*****
		<CAPACITOR>	
	C4305	1-163-017-00 CERAMIC CHIP 0.0047 μ F 10% 50V	
	C4307	1-163-017-00 CERAMIC CHIP 0.0047 μ F 10% 50V	
	C4309	1-163-251-11 CERAMIC CHIP 100pF 5% 50V	
		<CONNECTOR>	
	CN4301*	1-564-521-11 PLUG, CONNECTOR 6P	
	CN4302*	1-564-520-11 PLUG, CONNECTOR 5P	
	CN4303*	1-564-524-11 PLUG, CONNECTOR 9P	
		<DIODE>	
	D4301	8-719-016-73 DIODE STZ6.8TT146	
	D4302	8-719-016-73 DIODE STZ6.8TT146	
	D4303	8-719-016-73 DIODE STZ6.8TT146	
	D4304	8-719-016-73 DIODE STZ6.8TT146	
	D4305	8-719-016-73 DIODE STZ6.8TT146	
	D4306	8-719-016-73 DIODE STZ6.8TT146	
		<JACK>	
	J4301	1-573-970-11 BLOCK, (S) TERMINAL (AV4 INPUT)	
	J4302	1-774-753-11 JACK (HEAD PHONE)	
		<COIL>	
	L4301	1-414-189-31 INDUCTOR 100 μ H	
	L4302	1-414-189-31 INDUCTOR 100 μ H	
	L4303	1-410-985-42 INDUCTOR 0.22 μ H	

H1 H2 H4 J

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R4301	1-216-033-00	RES-CHIP 220 5% 1/10W	
R4303	1-216-033-00	RES-CHIP 220 5% 1/10W	
R4305	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4307	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R4308	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R4309	1-216-033-00	RES-CHIP 220 5% 1/10W	
R4311	1-216-033-00	RES-CHIP 220 5% 1/10W	
R4312	1-216-295-11	SHORT 0	
R4313	1-216-295-11	SHORT 0	

* A-1372-846-A H2 MOUNT			

<CONNECTOR>			
CN4404*	1-564-522-11	PLUG, CONNECTOR 7P	
<RESISTOR>			
R4420	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R4421	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4422	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R4423	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R4424	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
<SWITCH>			
S4402	1-692-431-21	SWITCH, TACTILE (TV/VIDEO)	
S4403	1-692-431-21	SWITCH, TACTILE (VOL -)	
S4404	1-692-431-21	SWITCH, TACTILE (VOL +)	
S4405	1-692-431-21	SWITCH, TACTILE (PROG -)	
S4406	1-692-431-21	SWITCH, TACTILE (PROG +)	

* A-1372-847-A H4 MOUNT			

* 4-058-315-01 HOLDER, LED			
4-359-103-00 HOLDER, LED			
<CAPACITOR>			
C4403	1-126-960-11	ELECT 1μF 20% 50V	
C4404	1-126-964-11	ELECT 10μF 20% 50V	
<CONNECTOR>			
CN4401*	1-564-522-11	PLUG, CONNECTOR 7P	
CN4402*	1-564-520-11	PLUG, CONNECTOR 5P	
<DIODE>			
D4401	8-719-812-31	DIODE TLR123	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D4402	8-719-820-51	DIODE TLSG126	
D4403	8-719-158-49	DIODE UDZ-TE-17-12B	
D4404	8-719-158-49	DIODE UDZ-TE-17-12B	
<IC>			
IC4401	8-742-129-00	HYB IC SBX1971-51P	
<TRANSISTOR>			
Q4401	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q4402	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q4403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q4404	8-729-900-53	TRANSISTOR DTC114EKA-T146	
<RESISTOR>			
R4401	1-216-295-11	SHORT 0	
R4402	1-216-025-11	RES-CHIP 100 5% 1/10W	
R4403	1-216-025-11	RES-CHIP 100 5% 1/10W	
R4404	1-216-041-00	RES-CHIP 470 5% 1/10W	
R4405	1-216-041-00	RES-CHIP 470 5% 1/10W	
R4406	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R4407	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R4408	1-216-073-00	RES-CHIP 10K 5% 1/10W	
<SWITCH>			
S4401	Δ 1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	

* A-1395-006-A J BOARD, COMPLETE			

<CAPACITOR>			
C8301	1-163-037-11	CERAMIC CHIP 0.022μF 10% 50V	
C8302	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C8305	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C8306	1-107-823-11	CERAMIC CHIP 0.47μF 10% 16V	
C8308	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
C8309	1-126-961-11	ELECT 2.2μF 20% 50V	
C8311	1-104-664-11	ELECT 47μF 20% 16V	
C8313	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C8314	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C8318	1-104-664-11	ELECT 47μF 20% 16V	
C8319	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
C8321	1-104-664-11	ELECT 47μF 20% 16V	
C8322	1-163-227-11	CERAMIC CHIP 10pF 50V	
C8323	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
C8324	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
C8325	1-126-964-11	ELECT 10μF 20% 50V	
C8327	1-107-682-11	CERAMIC CHIP 1μF 10% 16V	
C8329	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
C8331	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8335	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8456	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8336	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8457	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8337	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8458	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8338	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8459	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8345	1-107-682-11	CERAMIC CHIP	1μF 10% 16V	C8460	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8346	1-126-963-11	ELECT	4.7μF 20% 50V	C8461	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8347	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8462	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8348	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8463	1-104-664-11	ELECT	47μF 20% 16V
C8349	1-104-664-11	ELECT	47μF 20% 16V	C8464	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8350	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8465	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8351	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8466	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8352	1-104-664-11	ELECT	47μF 20% 16V	C8468	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8353	1-164-346-11	CERAMIC CHIP	1μF 16V	C8470	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8354	1-164-346-11	CERAMIC CHIP	1μF 16V	C8479	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8355	1-126-935-11	ELECT	470μF 20% 16V	C8486	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8356	1-126-933-11	ELECT	100μF 20% 16V	C8491	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8357	1-126-933-11	ELECT	100μF 20% 16V	C8492	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8358	1-126-933-11	ELECT	100μF 20% 16V	C8493	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8359	1-126-933-11	ELECT	100μF 20% 16V	C8494	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8360	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8495	1-126-964-11	ELECT	10μF 20% 50V
C8361	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8497	1-104-664-11	ELECT	47μF 20% 16V
C8401	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C8501	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8402	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C8502	1-104-664-11	ELECT	47μF 20% 16V
C8403	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8503	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8404	1-126-961-11	ELECT	2.2μF 20% 50V	C8504	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8405	1-104-664-11	ELECT	47μF 20% 16V	C8505	1-126-933-11	ELECT	100μF 20% 16V
C8406	1-104-664-11	ELECT	47μF 20% 16V	C8506	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V
C8408	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8507	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8410	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8508	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8411	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8509	1-126-933-11	ELECT	100μF 20% 16V
C8414	1-104-664-11	ELECT	47μF 20% 16V	C8510	1-104-664-11	ELECT	47μF 20% 16V
C8415	1-163-227-11	CERAMIC CHIP	10pF 50V	C8511	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8416	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8512	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8417	1-107-682-11	CERAMIC CHIP	1μF 10% 16V	C8513	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8418	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8514	1-117-720-11	CERAMIC CHIP	4.7μF 10V
C8419	1-126-964-11	ELECT	10μF 20% 50V	C8515	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8422	1-126-935-11	ELECT	470μF 20% 16V	C8516	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8423	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8517	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8424	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8518	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8427	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8519	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8431	1-107-715-11	ELECT	22μF 20% 25V	C8520	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8437	1-126-963-11	ELECT	4.7μF 20% 50V	C8521	1-117-720-11	CERAMIC CHIP	4.7μF 10V
C8441	1-163-227-11	CERAMIC CHIP	10pF 50V	C8524	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8442	1-163-227-11	CERAMIC CHIP	10pF 50V	C8525	1-104-664-11	ELECT	47μF 20% 16V
C8444	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8526	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8445	1-163-117-00	CERAMIC CHIP	100pF 5% 50V	C8601	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8446	1-163-117-00	CERAMIC CHIP	100pF 5% 50V	C8602	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8447	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8603	1-104-664-11	ELECT	47μF 20% 16V
C8448	1-126-933-11	ELECT	100μF 20% 16V	C8604	1-104-664-11	ELECT	47μF 20% 16V
C8449	1-126-933-11	ELECT	100μF 20% 16V	C8605	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8450	1-126-935-11	ELECT	470μF 20% 16V	C8606	1-104-664-11	ELECT	47μF 20% 16V
C8451	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8607	1-126-933-11	ELECT	100μF 20% 16V
C8452	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8608	1-107-715-11	ELECT	22μF 20% 16V
C8453	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8609	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8454	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8613	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8455	1-126-964-11	ELECT	10μF 20% 50V	C8614	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
				C8615	1-163-237-11	CERAMIC CHIP	27pF 5% 50V
				C8616	1-104-664-11	ELECT	47μF 20% 16V



REF. NO.	PART NO.	DESCRIPTION	REMARK
C8618	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8620	1-104-664-11	ELECT	47μF 20% 16V
C8621	1-104-664-11	ELECT	47μF 20% 16V
C8622	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8623	1-104-664-11	ELECT	47μF 20% 16V
C8624	1-104-664-11	ELECT	47μF 20% 16V
C8625	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8627	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8628	1-104-664-11	ELECT	47μF 20% 16V
C8629	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8631	1-104-664-11	ELECT	47μF 20% 16V
C8632	1-104-664-11	ELECT	47μF 20% 16V
C8635	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C8636	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C8638	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8639	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V
C8640	1-163-229-11	CERAMIC CHIP	12pF 5% 50V
C8700	1-126-964-11	ELECT	10μF 20% 50V
C8701	1-104-664-11	ELECT	47μF 20% 16V
C8702	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C8703	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8704	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8705	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8706	1-163-235-11	CERAMIC CHIP	22pF 5% 50V
C8707	1-163-235-11	CERAMIC CHIP	22pF 5% 50V
C8708	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8709	1-126-964-11	ELECT	10μF 20% 50V
C8710	1-126-933-11	ELECT	100μF 20% 16V
C8805	1-163-253-11	CERAMIC CHIP	120pF 5% 50V
C8806	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8807	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8808	1-163-227-11	CERAMIC CHIP	10pF 50V
C8811	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8812	1-104-664-11	ELECT	47μF 20% 25V
C8814	1-126-235-11	ELECT	100μF 20% 16V
C8815	1-163-253-11	CERAMIC CHIP	120pF 5% 50V
C8816	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8817	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8818	1-163-227-11	CERAMIC CHIP	10pF 50V
C8819	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8820	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8821	1-104-664-11	ELECT	47μF 20% 25V
C8822	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8823	1-126-933-11	ELECT	100μF 20% 16V
C8824	1-126-933-11	ELECT	100μF 20% 16V
C8825	1-126-933-11	ELECT	100μF 20% 16V
C8900	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8901	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8902	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8903	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8904	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8905	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8906	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8907	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8908	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8909	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C8910	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8911	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C8912	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C8913	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C8914	1-104-664-11	ELECT	47μF 20% 16V
C8915	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8916	1-126-933-11	ELECT	100μF 20% 16V
C8917	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8918	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C8919	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8920	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8921	1-104-664-11	ELECT	47μF 20% 16V
C8922	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8923	1-104-664-11	ELECT	47μF 20% 16V
C8924	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8925	1-104-664-11	ELECT	47μF 20% 16V
C8926	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8927	1-104-664-11	ELECT	47μF 20% 16V
C8928	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8929	1-104-664-11	ELECT	47μF 20% 16V
C8930	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8931	1-104-664-11	ELECT	47μF 20% 16V
C8932	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8933	1-163-241-11	CERAMIC CHIP	39pF 5% 50V
C8934	1-163-241-11	CERAMIC CHIP	39pF 5% 50V
C8935	1-163-241-11	CERAMIC CHIP	39pF 5% 50V
<CONNECTOR>			
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD	50P
CN8900	1-695-549-11	SOCKET, PIN 21P	
CN8901	1-695-549-11	SOCKET, PIN 21P	
CN8902	1-695-549-11	SOCKET, PIN 21P	
CN8903*	1-564-526-31	PLUG, CONNECTOR	11P
<DIODE>			
D8301	8-719-976-96	DIODE	UDZ-TE-17-4.7B
D8302	8-719-976-96	DIODE	UDZ-TE-17-4.7B
D8450	8-719-158-49	DIODE	UDZ-TE-17-12B
D8451	8-719-158-49	DIODE	UDZ-TE-17-12B
D8601	8-719-041-97	DIODE	MA113-(TX)
D8900	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8901	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8902	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8903	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8904	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8905	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8906	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8907	8-719-158-49	DIODE	UDZ-TE-17-12B
D8908	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8909	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8910	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8911	8-719-056-85	DIODE	UDZS-TE17-8.2B
D8912	8-719-158-49	DIODE	UDZ-TE-17-12B
D8913	8-719-158-49	DIODE	UDZ-TE-17-12B
D8914	8-719-158-49	DIODE	UDZ-TE-17-12B



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D8915	8-719-158-49	DIODE UDZ-TE-17-12B				<JACK>	
D8916	8-719-158-49	DIODE UDZ-TE-17-12B					
D8917	8-719-158-49	DIODE UDZ-TE-17-12B		J8901	1-565-838-11	JACK BLOCK, PIN 2P	
D8918	8-719-056-83	DIODE UDZ-TE-17-6.8B				<COIL>	
D8919	8-719-056-83	DIODE UDZ-TE-17-6.8B					
D8920	8-719-056-83	DIODE UDZ-TE-17-6.8B		L8101	1-402-711-11	INDUCTOR 0μH	
D8921	8-719-056-83	DIODE UDZ-TE-17-6.8B		L8102	1-402-711-11	INDUCTOR 0μH	
D8922	8-719-158-49	DIODE UDZ-TE-17-12B		L8454	1-412-533-21	INDUCTOR 47μH	
D8923	8-719-158-49	DIODE UDZ-TE-17-12B		L8455	1-412-533-21	INDUCTOR 47μH	
D8924	8-719-158-49	DIODE UDZ-TE-17-12B		L8552	1-414-234-22	INDUCTOR 0μH	
D8925	8-719-158-49	DIODE UDZ-TE-17-12B		L8601	1-414-234-22	INDUCTOR 0μH	
D8926	8-719-158-49	DIODE UDZ-TE-17-12B		L8602	1-414-187-11	INDUCTOR 47μH	
D8927	8-719-158-49	DIODE UDZ-TE-17-12B		L8604	1-414-182-11	INDUCTOR 6.8μH	
D8928	8-719-158-49	DIODE UDZ-TE-17-12B		L8606	1-414-234-22	INDUCTOR 0μH	
D8929	8-719-158-49	DIODE UDZ-TE-17-12B		L8607	1-414-234-22	INDUCTOR 0μH	
D8930	8-719-158-49	DIODE UDZ-TE-17-12B		L8801	1-412-954-11	INDUCTOR 18μH	
D8931	8-719-158-49	DIODE UDZ-TE-17-12B		L8802	1-412-954-11	INDUCTOR 18μH	
D8932	8-719-158-49	DIODE UDZ-TE-17-12B		L8804	1-414-234-22	INDUCTOR 0μH	
D8933	8-719-158-49	DIODE UDZ-TE-17-12B		L8805	1-414-234-22	INDUCTOR 0μH	
		<FILTER>		L8806	1-414-234-22	INDUCTOR 0μH	
FL8302	1-236-071-11	ENCAPSULATED COMPONENT		L8919	1-414-234-22	INDUCTOR 0μH	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT				<TRANSISTOR>	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT					
FL8401	1-236-071-11	ENCAPSULATED COMPONENT		Q8302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8402	1-236-071-11	ENCAPSULATED COMPONENT		Q8309	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8403	1-236-071-11	ENCAPSULATED COMPONENT		Q8311	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8451	1-236-071-11	ENCAPSULATED COMPONENT		Q8451	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8452	1-236-071-11	ENCAPSULATED COMPONENT		Q8452	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT		Q8501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT		Q8502	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8502	1-233-765-21	FILTER		Q8503	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8503	1-233-768-21	FILTER		Q8504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8504	1-233-766-21	FILTER		Q8601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8601	1-236-071-11	ENCAPSULATED COMPONENT		Q8602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8602	1-233-877-11	FILTER, LOW PASS		Q8603	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8603	1-233-504-21	FILTER, LOW PASS		Q8604	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
FL8604	1-233-504-21	FILTER, LOW PASS		Q8605	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT		Q8606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT		Q8607	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
		<IC>		Q8609	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8301	8-752-096-08	IC CXA2123BQ-T6		Q8610	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8302	8-759-242-76	IC TC7W08F(Te12R)		Q8611	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8303	8-759-242-76	IC TC7W08F(Te12R)		Q8612	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8304	8-759-576-72	IC LF50CDT-TR		Q8614	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8305	8-759-576-72	IC LF50CDT-TR		Q8615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC8401	8-752-096-08	IC CXA2123BQ-T6		Q8616	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8451	8-752-093-50	IC CXA2149Q-TL		Q8620	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC8452	8-759-576-76	IC TDA2822D013TR		Q8621	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8500	8-752-390-37	IC CXD2064Q-T6		Q8623	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8601	8-759-572-04	IC TDA9178T/N1.118		Q8624	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC8602	8-759-337-26	IC MM1115XFBE		Q8625	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
IC8700	8-752-390-35	IC CXD2057M-T6		Q8626	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
				Q8627	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
				Q8628	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
				Q8629	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	

KF-50SX100/50SX100K/50SX100U

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q8630	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8403	1-216-083-00	RES-CHIP	27K 5% 1/10W
Q8631	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8405	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
Q8632	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8406	1-216-017-91	RES-CHIP	47 5% 1/10W
				R8407	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
Q8633	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8409	1-216-017-91	RES-CHIP	47 5% 1/10W
Q8634	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR				
Q8635	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8410	1-216-025-11	RES-CHIP	100 5% 1/10W
Q8636	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R8411	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
Q8637	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R8412	1-216-025-11	RES-CHIP	100 5% 1/10W
				R8413	1-216-025-11	RES-CHIP	100 5% 1/10W
Q8638	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8414	1-216-025-11	RES-CHIP	100 5% 1/10W
Q8639	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR				
Q8640	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8415	1-216-025-11	RES-CHIP	100 5% 1/10W
Q8700	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8416	1-216-295-11	SHORT	0
Q8801	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8417	1-216-295-11	SHORT	0
				R8418	1-216-295-11	SHORT	0
Q8804	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8419	1-216-025-11	RES-CHIP	100 5% 1/10W
Q8805	8-729-039-67	TRANSISTOR	BSS83				
Q8807	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8426	1-216-017-91	RES-CHIP	47 5% 1/10W
Q8809	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8427	1-216-017-91	RES-CHIP	47 5% 1/10W
Q8810	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8428	1-216-017-91	RES-CHIP	47 5% 1/10W
				R8429	1-216-295-11	SHORT	0
Q8811	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8430	1-216-089-11	RES-CHIP	47K 5% 1/10W
Q8812	8-729-039-67	TRANSISTOR	BSS83				
Q8813	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8431	1-216-089-11	RES-CHIP	47K 5% 1/10W
Q8814	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8432	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q8815	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR	R8433	1-216-081-00	RES-CHIP	22K 5% 1/10W
				R8434	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q8901	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8435	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q8902	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR				
Q8903	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8436	1-216-308-00	RES-CHIP	4.7 5% 1/10W
Q8904	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8437	1-216-308-00	RES-CHIP	4.7 5% 1/10W
Q8905	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8438	1-216-033-00	RES-CHIP	220 5% 1/10W
				R8439	1-216-033-00	RES-CHIP	220 5% 1/10W
Q8906	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R8440	1-216-295-11	SHORT	0
		<RESISTOR>		R8441	1-216-295-11	SHORT	0
R8300	1-216-295-11	SHORT	0	R8451	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8301	1-216-025-11	RES-CHIP	100 5% 1/10W	R8452	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8302	1-216-017-91	RES-CHIP	47 5% 1/10W	R8453	1-208-820-11	METAL CHIP	39K 0.5% 1/10W
R8303	1-216-295-11	SHORT	0	R8454	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R8306	1-216-083-00	RES-CHIP	27K 5% 1/10W				
				R8455	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R8307	1-216-295-11	SHORT	0	R8458	1-216-033-00	RES-CHIP	220 5% 1/10W
R8309	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8459	1-216-033-00	RES-CHIP	220 5% 1/10W
R8315	1-216-295-11	SHORT	0	R8466	1-216-025-11	RES-CHIP	100 5% 1/10W
R8316	1-216-295-11	SHORT	0	R8467	1-216-025-11	RES-CHIP	100 5% 1/10W
R8317	1-216-295-11	SHORT	0				
				R8468	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8318	1-216-295-11	SHORT	0	R8469	1-216-017-91	RES-CHIP	47 5% 1/10W
R8319	1-216-295-11	SHORT	0	R8470	1-216-022-00	RES-CHIP	75 5% 1/10W
R8321	1-216-295-11	SHORT	0	R8474	1-216-017-91	RES-CHIP	47 5% 1/10W
R8323	1-216-017-91	RES-CHIP	47 5% 1/10W	R8475	1-216-022-00	RES-CHIP	75 5% 1/10W
R8326	1-216-017-91	RES-CHIP	47 5% 1/10W				
				R8477	1-216-089-11	RES-CHIP	47K 1/10W
R8327	1-216-121-11	RES-CHIP	1M 5% 1/10W	R8478	1-216-689-11	RES-CHIP	39K 1/10W
R8328	1-216-025-11	RES-CHIP	100 5% 1/10W	R8479	1-216-295-11	SHORT	0
R8329	1-216-025-11	RES-CHIP	100 5% 1/10W	R8481	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8336	1-216-025-11	RES-CHIP	100 5% 1/10W	R8482	1-216-029-00	RES-CHIP	150 5% 1/10W
R8338	1-216-017-91	RES-CHIP	47 5% 1/10W				
				R8483	1-216-029-00	RES-CHIP	150 5% 1/10W
R8339	1-216-017-91	RES-CHIP	47 5% 1/10W	R8484	1-216-029-00	RES-CHIP	150 5% 1/10W
R8340	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8485	1-216-029-00	RES-CHIP	150 5% 1/10W
R8342	1-216-295-11	SHORT	0	R8501	1-216-093-91	RES-CHIP	68K 1/10W
R8401	1-216-295-11	SHORT	0	R8502	1-216-083-00	RES-CHIP	27K 1/10W
R8402	1-216-295-11	SHORT	0				
				R8503	1-216-295-11	SHORT	0
				R8504	1-216-049-11	RES-CHIP	1K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R8505	1-216-295-11	SHORT	0	R8632	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8506	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8633	1-216-041-00	RES-CHIP	470 5% 1/10W
R8507	1-216-295-11	SHORT	0	R8634	1-216-041-00	RES-CHIP	470 5% 1/10W
R8508	1-216-043-91	RES-CHIP	560 5% 1/10W	R8635	1-216-085-00	RES-CHIP	33K 5% 1/10W
R8509	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R8636	1-216-041-00	RES-CHIP	470 5% 1/10W
R8510	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W	R8640	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8512	1-216-295-11	SHORT	0	R8642	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8514	1-216-017-91	RES-CHIP	47 5% 1/10W	R8644	1-216-041-00	RES-CHIP	470 5% 1/10W
R8517	1-216-295-11	SHORT	0	R8645	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8519	1-216-639-11	METAL CHIP	330 0.5% 1/10W	R8646	1-216-295-11	SHORT	0
R8520	1-216-041-00	RES-CHIP	470 5% 1/10W	R8647	1-216-025-11	RES-CHIP	100 5% 1/10W
R8521	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8648	1-216-025-11	RES-CHIP	100 5% 1/10W
R8522	1-216-041-00	RES-CHIP	470 5% 1/10W	R8649	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8523	1-216-033-00	RES-CHIP	220 5% 1/10W	R8650	1-216-295-11	SHORT	0
R8524	1-216-295-11	SHORT	0	R8652	1-216-037-00	RES-CHIP	330 5% 1/10W
R8526	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8653	1-216-041-00	RES-CHIP	470 5% 1/10W
R8527	1-216-047-91	RES-CHIP	820 5% 1/10W	R8654	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8528	1-216-047-91	RES-CHIP	820 5% 1/10W	R8655	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8529	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R8659	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8530	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8660	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8531	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R8661	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8532	1-216-649-11	METAL CHIP	820 0.5% 1/10W	R8664	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8533	1-216-651-11	METAL CHIP	1K 0.5% 1/10W	R8665	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8534	1-216-619-11	METAL CHIP	47 0.5% 1/10W	R8666	1-216-295-11	SHORT	0
R8535	1-216-295-11	SHORT	0	R8667	1-216-043-91	RES-CHIP	560 5% 1/10W
R8536	1-216-295-11	SHORT	0	R8670	1-216-039-00	RES-CHIP	390 5% 1/10W
R8537	1-216-295-11	SHORT	0	R8671	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8600	1-216-295-11	SHORT	0	R8672	1-216-295-11	SHORT	0
R8601	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8673	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8602	1-216-295-11	SHORT	0	R8675	1-216-037-00	RES-CHIP	330 5% 1/10W
R8603	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8676	1-216-295-11	SHORT	0
R8604	1-216-041-00	RES-CHIP	470 5% 1/10W	R8677	1-216-041-00	RES-CHIP	470 5% 1/10W
R8605	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8678	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8606	1-216-025-11	RES-CHIP	100 5% 1/10W	R8679	1-216-041-00	RES-CHIP	470 5% 1/10W
R8607	1-216-043-91	RES-CHIP	560 5% 1/10W	R8680	1-216-295-11	SHORT	0
R8608	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8681	1-216-041-00	RES-CHIP	470 5% 1/10W
R8609	1-216-041-00	RES-CHIP	470 5% 1/10W	R8682	1-216-031-00	RES-CHIP	180 5% 1/10W
R8610	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8683	1-216-041-00	RES-CHIP	470 5% 1/10W
R8611	1-216-041-00	RES-CHIP	470 5% 1/10W	R8684	1-216-295-11	SHORT	0
R8612	1-216-025-11	RES-CHIP	100 5% 1/10W	R8685	1-216-041-00	RES-CHIP	470 5% 1/10W
R8613	1-216-025-11	RES-CHIP	100 5% 1/10W	R8686	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8614	1-216-295-11	SHORT	0	R8687	1-216-037-00	RES-CHIP	330 5% 1/10W
R8616	1-216-295-11	SHORT	0	R8688	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8617	1-208-772-11	METAL CHIP	390 0.5% 1/10W	R8689	1-216-041-00	RES-CHIP	470 5% 1/10W
R8618	1-208-778-11	METAL CHIP	680 0.5% 1/10W	R8690	1-216-041-00	RES-CHIP	470 5% 1/10W
R8619	1-216-295-11	SHORT	0	R8692	1-216-041-00	RES-CHIP	470 5% 1/10W
R8621	1-216-025-11	RES-CHIP	100 5% 1/10W	R8693	1-216-041-00	RES-CHIP	470 5% 1/10W
R8622	1-216-013-00	RES-CHIP	33 5% 1/10W	R8694	1-216-041-00	RES-CHIP	470 5% 1/10W
R8623	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8695	1-216-013-00	RES-CHIP	33 5% 1/10W
R8624	1-216-041-00	RES-CHIP	470 5% 1/10W	R8696	1-216-013-00	RES-CHIP	33 5% 1/10W
R8625	1-216-689-11	RES-CHIP	39K 5% 1/10W	R8697	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8626	1-216-041-00	RES-CHIP	470 5% 1/10W	R8698	1-216-031-00	RES-CHIP	180 5% 1/10W
R8627	1-216-041-00	RES-CHIP	470 5% 1/10W	R8699	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8628	1-216-689-11	RES-CHIP	39K 5% 1/10W	R8700	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8629	1-216-041-00	RES-CHIP	470 5% 1/10W	R8701	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8630	1-216-025-11	RES-CHIP	100 5% 1/10W	R8702	1-216-025-11	RES-CHIP	100 5% 1/10W
R8631	1-216-295-11	SHORT	0				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R8703	1-216-025-11	RES-CHIP	100 5% 1/10W	R8845	1-216-041-00	RES-CHIP	470 5% 1/10W
R8704	1-216-025-11	RES-CHIP	100 5% 1/10W	R8846	1-216-041-00	RES-CHIP	470 5% 1/10W
R8705	1-216-295-11	SHORT	0	R8847	1-216-041-00	RES-CHIP	470 5% 1/10W
R8706	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R8707	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8850	1-216-295-11	SHORT	0
				R8851	1-216-295-11	SHORT	0
R8708	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8853	1-216-097-11	RES-CHIP	100K 5% 1/10W
R8709	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8854	1-216-085-00	RES-CHIP	33K 5% 1/10W
R8710	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8900	1-216-039-00	RES-CHIP	390 5% 1/10W
R8711	1-216-091-00	RES-CHIP	56K 5% 1/10W				
R8712	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8901	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R8902	1-216-039-00	RES-CHIP	390 5% 1/10W
R8713	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8903	1-216-089-11	RES-CHIP	47K 5% 1/10W
R8714	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8904	1-216-089-11	RES-CHIP	47K 5% 1/10W
R8715	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8905	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8716	1-216-043-91	RES-CHIP	560 5% 1/10W				
R8717	1-216-037-00	RES-CHIP	330 5% 1/10W	R8906	1-216-035-00	RES-CHIP	270 5% 1/10W
				R8907	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8718	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8908	1-216-035-00	RES-CHIP	270 5% 1/10W
R8719	1-216-043-91	RES-CHIP	560 5% 1/10W	R8909	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8720	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8910	1-216-295-11	SHORT	0
R8721	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R8722	1-216-097-11	RES-CHIP	100K 5% 1/10W	R8911	1-216-025-11	RES-CHIP	100 5% 1/10W
				R8912	1-216-295-11	SHORT	0
R8723	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8913	1-216-022-00	RES-CHIP	75 5% 1/10W
R8724	1-216-095-00	RES-CHIP	82K 5% 1/10W	R8914	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8725	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8915	1-216-022-00	RES-CHIP	75 5% 1/10W
R8726	1-216-295-11	SHORT	0				
R8727	1-216-045-00	RES-CHIP	680 5% 1/10W	R8916	1-216-017-91	RES-CHIP	47 5% 1/10W
				R8917	1-216-017-91	RES-CHIP	47 5% 1/10W
R8728	1-216-045-00	RES-CHIP	680 5% 1/10W	R8918	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8729	1-216-033-00	RES-CHIP	220 5% 1/10W	R8919	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8730	1-216-295-11	SHORT	0	R8920	1-216-295-11	SHORT	0
R8801	1-216-035-00	RES-CHIP	270 5% 1/10W				
R8804	1-216-033-00	RES-CHIP	220 5% 1/10W	R8921	1-216-295-11	SHORT	0
				R8922	1-216-022-00	RES-CHIP	75 5% 1/10W
R8805	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8923	1-216-022-00	RES-CHIP	75 5% 1/10W
R8809	1-216-085-00	RES-CHIP	33K 5% 1/10W	R8924	1-216-022-00	RES-CHIP	75 5% 1/10W
R8810	1-216-089-11	RES-CHIP	47K 5% 1/10W	R8925	1-216-022-00	RES-CHIP	75 5% 1/10W
R8812	1-216-037-00	RES-CHIP	330 5% 1/10W				
R8813	1-216-037-00	RES-CHIP	330 5% 1/10W	R8926	1-216-017-91	RES-CHIP	47 5% 1/10W
				R8927	1-216-017-91	RES-CHIP	47 5% 1/10W
R8815	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8928	1-216-017-91	RES-CHIP	47 5% 1/10W
R8816	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8929	1-216-039-00	RES-CHIP	390 5% 1/10W
R8818	1-216-642-11	METAL CHIP	430 0.5% 1/10W	R8930	1-216-049-11	RES-CHIP	1K 1/10W
R8821	1-216-025-11	RES-CHIP	100 5% 1/10W				
R8823	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8931	1-216-039-00	RES-CHIP	390 5% 1/10W
				R8932	1-216-049-11	RES-CHIP	1K 1/10W
R8826	1-216-295-11	SHORT	0	R8933	1-216-089-11	RES-CHIP	47K 1/10W
R8827	1-216-295-11	SHORT	0	R8934	1-216-089-11	RES-CHIP	47K 1/10W
R8828	1-216-029-00	RES-CHIP	150 5% 1/10W	R8935	1-216-113-00	RES-CHIP	470K 1/10W
R8831	1-216-031-00	RES-CHIP	180 5% 1/10W				
R8832	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8936	1-216-113-00	RES-CHIP	470K 1/10W
				R8937	1-216-035-00	RES-CHIP	270 5% 1/10W
R8833	1-216-295-11	SHORT	0	R8938	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8834	1-216-037-00	RES-CHIP	330 5% 1/10W	R8939	1-216-035-00	RES-CHIP	270 5% 1/10W
R8835	1-216-037-00	RES-CHIP	330 5% 1/10W	R8940	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8836	1-216-089-11	RES-CHIP	47K 5% 1/10W				
R8837	1-216-689-11	RES-CHIP	39K 5% 1/10W	R8941	1-216-025-11	RES-CHIP	100 5% 1/10W
				R8942	1-216-009-91	RES-CHIP	22 5% 1/10W
R8838	1-216-049-11	RES-CHIP	1K 5% 1/10W	R8943	1-216-022-00	RES-CHIP	75 5% 1/10W
R8839	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8944	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8840	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8945	1-216-022-00	RES-CHIP	75 5% 1/10W
R8841	1-216-642-11	METAL CHIP	430 0.5% 1/10W				
R8842	1-216-025-11	RES-CHIP	100 5% 1/10W	R8946	1-216-017-91	RES-CHIP	47 5% 1/10W
				R8947	1-216-039-00	RES-CHIP	390 5% 1/10W
R8843	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8948	1-216-049-11	RES-CHIP	1K 5% 1/10W
R8844	1-216-295-11	SHORT	0	R8949	1-216-022-00	RES-CHIP	75 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
R8950	1-216-089-11	RES-CHIP	47K	5%	1/10W			* A-1306-594-A M BOARD, COMPLETE *****					
R8951	1-216-017-91	RES-CHIP	47	5%	1/10W								
R8952	1-216-113-00	RES-CHIP	470K	5%	1/10W			1-540-151-21	SOCKET, IC				
R8953	1-216-035-00	RES-CHIP	270	5%	1/10W								
R8954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W								
R8955	1-216-039-00	RES-CHIP	390	5%	1/10W				<CAPACITOR>				
R8956	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9100	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
R8957	1-216-025-11	RES-CHIP	100	5%	1/10W	C9101	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8958	1-216-089-11	RES-CHIP	47K	5%	1/10W	C9102	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8959	1-216-022-00	RES-CHIP	75	5%	1/10W	C9103	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8960	1-216-017-91	RES-CHIP	47	5%	1/10W	C9104	1-126-933-11	ELECT	100μF	20%	16V		
R8961	1-216-022-00	RES-CHIP	75	5%	1/10W	C9105	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8962	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	C9106	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8963	1-216-113-00	RES-CHIP	470K	5%	1/10W	C9107	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8964	1-216-035-00	RES-CHIP	270	5%	1/10W	C9109	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8965	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9110	1-110-501-11	CERAMIC CHIP	0.33μF	10%	16V		
R8966	1-216-037-00	RES-CHIP	330	5%	1/10W	C9111	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V		
R8967	1-216-037-00	RES-CHIP	330	5%	1/10W	C9112	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8968	1-216-022-00	RES-CHIP	75	5%	1/10W	C9113	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8969	1-216-017-91	RES-CHIP	47	5%	1/10W	C9114	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8972	1-216-045-00	RES-CHIP	680	5%	1/10W	C9115	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
R8973	1-216-045-00	RES-CHIP	680	5%	1/10W	C9116	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8974	1-216-113-00	RES-CHIP	470K	5%	1/10W	C9117	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8975	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9118	1-104-664-11	ELECT	47μF	20%	16V		
R8976	1-216-113-00	RES-CHIP	470K	5%	1/10W	C9119	1-110-501-11	CERAMIC CHIP	0.33μF	10%	16V		
R8977	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9120	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8978	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9121	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
R8979	1-216-295-11	SHORT	0			C9122	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
R8981	1-216-089-11	RES-CHIP	47K	5%	1/10W	C9123	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8982	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9124	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8983	1-216-689-11	RES-CHIP	39K	5%	1/10W	C9125	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8984	1-216-295-11	SHORT	0			C9126	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8985	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C9127	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8986	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C9128	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8987	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	C9129	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8988	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	C9130	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8994	1-216-073-00	RES-CHIP	10K	5%	1/10W	C9131	1-163-239-11	CERAMIC CHIP	33pF	5%	50V		
R8995	1-216-089-11	RES-CHIP	47K	5%	1/10W	C9132	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
R8996	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9133	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
R8997	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9400	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
						C9501	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
		<TERMINAL BOARD>				C9503	1-126-964-11	ELECT	10μF	20%	50V		
TB8101	1-537-712-11	TERMINAL, PUSH				C9504	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
						C9505	1-126-933-11	ELECT	100μF	20%	16V		
						C9506	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
		<CRYSTAL>				C9507	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
X8301	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)				C9508	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
X8401	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)				C9509	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
X8700	1-767-342-21	VIBRATOR, CRYSTAL (14.3MHz)				C9510	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V		
						C9511	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
						C9512	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
						C9513	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		
*****						C9514	1-163-235-11	CERAMIC CHIP	22pF	5%	50V		
						C9515	1-163-235-11	CERAMIC CHIP	22pF	5%	50V		
						C9516	1-163-251-11	CERAMIC CHIP	100pF	5%	50V		
						C9517	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V		



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
Q9712	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R				R9166	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R9168	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
		<RESISTOR>				R9169	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9100	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9172	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9101	1-216-033-00	RES-CHIP	220	5%	1/10W	R9173	1-216-295-11	SHORT	0		
R9102	1-216-033-00	RES-CHIP	220	5%	1/10W	R9174	1-216-025-11	RES-CHIP	100	5%	1/10W
R9103	1-216-025-11	RES-CHIP	100	5%	1/10W	R9175	1-216-025-11	RES-CHIP	100	5%	1/10W
R9104	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9176	1-216-025-11	RES-CHIP	100	5%	1/10W
R9105	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9177	1-216-025-11	RES-CHIP	100	5%	1/10W
R9107	1-216-295-11	SHORT	0			R9178	1-216-025-11	RES-CHIP	100	5%	1/10W
R9108	1-216-295-11	SHORT	0			R9179	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9109	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9180	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9110	1-216-081-00	RES-CHIP	22K	5%	1/10W	R9181	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9111	1-216-025-11	RES-CHIP	100	5%	1/10W	R9182	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9112	1-216-025-11	RES-CHIP	100	5%	1/10W	R9183	1-216-025-11	RES-CHIP	100	5%	1/10W
R9113	1-216-033-00	RES-CHIP	220	5%	1/10W	R9184	1-216-025-11	RES-CHIP	100	5%	1/10W
R9114	1-216-083-00	RES-CHIP	27K	5%	1/10W	R9185	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9115	1-216-081-00	RES-CHIP	22K	5%	1/10W	R9186	1-216-025-11	RES-CHIP	100	5%	1/10W
R9116	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9187	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9117	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9188	1-216-025-11	RES-CHIP	100	5%	1/10W
R9118	1-216-025-11	RES-CHIP	100	5%	1/10W	R9189	1-216-025-11	RES-CHIP	100	5%	1/10W
R9119	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9190	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9120	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9191	1-216-025-11	RES-CHIP	100	5%	1/10W
R9121	1-216-017-91	RES-CHIP	47	5%	1/10W	R9192	1-216-025-11	RES-CHIP	100	5%	1/10W
R9122	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9193	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9123	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9194	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9124	1-216-025-11	RES-CHIP	100	5%	1/10W	R9195	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9125	1-216-025-11	RES-CHIP	100	5%	1/10W	R9196	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9126	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9197	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9127	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9198	1-216-017-91	RES-CHIP	47	5%	1/10W
R9128	1-249-411-11	CARBON	330	5%	1/4W	R9199	1-216-017-91	RES-CHIP	47	5%	1/10W
R9129	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R9201	1-216-025-11	RES-CHIP	100	5%	1/10W
R9130	1-216-097-11	RES-CHIP	100K	5%	1/10W	R9202	1-216-025-11	RES-CHIP	100	5%	1/10W
R9131	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R9203	1-216-017-91	RES-CHIP	47	5%	1/10W
R9132	1-216-025-11	RES-CHIP	100	5%	1/10W	R9204	1-216-017-91	RES-CHIP	47	5%	1/10W
R9133	1-216-033-00	RES-CHIP	220	5%	1/10W	R9501	1-216-017-91	RES-CHIP	47	5%	1/10W
R9134	1-216-025-11	RES-CHIP	100	5%	1/10W	R9502	1-216-295-11	SHORT	0		
R9135	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R9504	1-216-041-00	RES-CHIP	470	5%	1/10W
R9136	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9505	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R9137	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9506	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9138	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9507	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9139	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9508	1-216-295-11	SHORT	0		
R9141	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9142	1-216-041-00	RES-CHIP	470	5%	1/10W	R9510	1-216-041-00	RES-CHIP	470	5%	1/10W
R9143	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9511	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9145	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9512	1-216-041-00	RES-CHIP	470	5%	1/10W
R9146	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9513	1-216-041-00	RES-CHIP	470	5%	1/10W
R9148	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9514	1-216-017-91	RES-CHIP	47	5%	1/10W
R9149	1-216-025-11	RES-CHIP	100	5%	1/10W	R9518	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9150	1-216-025-11	RES-CHIP	100	5%	1/10W	R9519	1-216-039-00	RES-CHIP	390	5%	1/10W
R9153	1-216-025-11	RES-CHIP	100	5%	1/10W	R9520	1-216-039-00	RES-CHIP	390	5%	1/10W
R9157	1-216-025-11	RES-CHIP	100	5%	1/10W	R9521	1-216-039-00	RES-CHIP	390	5%	1/10W
R9159	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9522	1-216-017-91	RES-CHIP	47	5%	1/10W
R9161	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9523	1-216-017-91	RES-CHIP	47	5%	1/10W
R9162	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9524	1-216-017-91	RES-CHIP	47	5%	1/10W
R9164	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
						R9526	1-216-057-00	RES-CHIP	2.2K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R9527	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9528	1-216-025-11	RES-CHIP 100	5% 1/10W
R9529	1-216-025-11	RES-CHIP 100	5% 1/10W
R9530	1-216-025-11	RES-CHIP 100	5% 1/10W
R9531	1-216-295-11	SHORT 0	
R9532	1-216-295-11	SHORT 0	
R9701	1-216-295-11	SHORT 0	
R9702	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R9703	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R9704	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R9705	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R9706	1-216-025-11	RES-CHIP 100	5% 1/10W
R9707	1-216-025-11	RES-CHIP 100	5% 1/10W
R9708	1-216-025-11	RES-CHIP 100	5% 1/10W
R9709	1-216-025-11	RES-CHIP 100	5% 1/10W
R9710	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9711	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R9712	1-216-025-11	RES-CHIP 100	5% 1/10W
R9713	1-216-025-11	RES-CHIP 100	5% 1/10W
R9714	1-216-025-11	RES-CHIP 100	5% 1/10W
R9715	1-216-025-11	RES-CHIP 100	5% 1/10W
R9717	1-216-025-11	RES-CHIP 100	5% 1/10W
R9718	1-216-025-11	RES-CHIP 100	5% 1/10W
R9719	1-216-025-11	RES-CHIP 100	5% 1/10W
R9723	1-216-295-11	SHORT 0	
R9724	1-216-295-11	SHORT 0	
R9726	1-216-025-11	RES-CHIP 100	5% 1/10W
R9727	1-216-025-11	RES-CHIP 100	5% 1/10W
R9733	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9734	1-216-033-00	RES-CHIP 220	5% 1/10W
R9735	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9737	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9739	1-216-081-00	RES-CHIP 22K	5% 1/10W
R9740	1-216-033-00	RES-CHIP 220	5% 1/10W
R9749	1-216-049-11	RES-CHIP 1K	5% 1/10W
R9751	1-216-049-11	RES-CHIP 1K	5% 1/10W
R9752	1-216-033-00	RES-CHIP 220	5% 1/10W
R9753	1-216-017-91	RES-CHIP 47	5% 1/10W
R9754	1-216-017-91	RES-CHIP 47	5% 1/10W
R9755	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9756	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9757	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9764	1-216-025-11	RES-CHIP 100	5% 1/10W
R9765	1-216-025-11	RES-CHIP 100	5% 1/10W
R9766	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9767	1-216-033-00	RES-CHIP 220	5% 1/10W
R9769	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9770	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9772	1-216-025-11	RES-CHIP 100	5% 1/10W
R9773	1-216-025-11	RES-CHIP 100	5% 1/10W
R9774	1-216-025-11	RES-CHIP 100	5% 1/10W
R9776	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9777	1-216-033-00	RES-CHIP 220	5% 1/10W
R9780	1-216-025-11	RES-CHIP 100	5% 1/10W
R9781	1-216-025-11	RES-CHIP 100	5% 1/10W
R9782	1-216-073-00	RES-CHIP 10K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R9783	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9784	1-216-025-11	RES-CHIP 100	5% 1/10W
R9785	1-216-025-11	RES-CHIP 100	5% 1/10W
R9786	1-216-025-11	RES-CHIP 100	5% 1/10W
R9787	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9788	1-216-025-11	RES-CHIP 100	5% 1/10W
R9789	1-216-025-11	RES-CHIP 100	5% 1/10W
R9792	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9794	1-216-025-11	RES-CHIP 100	5% 1/10W
<RESISTER BLOCK>			
RB9101	1-239-412-11	NETWORK RESISTOR (CHIP) 100	
<CRYSTAL>			
X9101	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	
X9500	1-760-551-21	VIBRATOR, CERAMIC (20.480MHz)	
X9701	1-760-014-11	VIBRATOR, CERAMIC (20MHz)	

* A-1395-017-A N BOARD, COMPLETE			

<CAPACITOR>			
C2330	1-104-664-11	ELECT 47μF	20% 16V
C2331	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C2332	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C2341	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C2344	1-126-933-11	ELECT 100μF	20% 16V
C2347	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C2501	1-126-933-11	ELECT 100μF	20% 16V
C2502	1-104-664-11	ELECT 47μF	20% 16V
C2504	1-163-255-11	CERAMIC CHIP 150pF	5% 50V
C2505	1-163-255-11	CERAMIC CHIP 150pF	5% 50V
C2506	1-163-253-11	CERAMIC CHIP 120pF	5% 50V
C2507	1-163-253-11	CERAMIC CHIP 120pF	5% 50V
C2508	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2509	1-126-968-11	ELECT 100μF	20% 50V
C2510	1-126-968-11	ELECT 100μF	20% 50V
C2511	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C2512	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2513	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C2515	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2516	1-126-964-11	ELECT 10μF	20% 50V
C2518	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2519	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2521	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2522	1-126-967-11	ELECT 47μF	20% 50V
C2523	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C2524	1-126-964-11	ELECT 10μF	20% 50V
C2525	1-104-664-11	ELECT 47μF	20% 16V
C2526	1-126-933-11	ELECT 100μF	20% 16V



REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
C2528	1-165-319-11	CERAMIC CHIP	0.1μF		50V		IC2504	8-759-708-05	IC TA78L005AP-TPE6				
C2529	1-163-259-91	CERAMIC CHIP	220pF	5%	50V		IC2505	8-752-072-94	IC CXA1875AM-T4				
C2530	1-163-087-00	CERAMIC CHIP	4pF		50V								
C2531	1-165-319-11	CERAMIC CHIP	0.1μF		50V				<COIL>				
C2533	1-104-664-11	ELECT	47μF	20%	16V								
C2535	1-104-664-11	ELECT	47μF	20%	16V		L2503	1-410-426-11	INDUCTOR	39μH			
C2536	1-104-664-11	ELECT	47μF	20%	16V		L2504	1-410-431-11	INDUCTOR	100μH			
							L2505	1-410-431-11	INDUCTOR	100μH			
C2537	1-104-664-11	ELECT	47μF	20%	16V		L2506	1-408-615-31	INDUCTOR	100μH			
C2538	1-165-319-11	CERAMIC CHIP	0.1μF		50V		L2507	1-408-615-31	INDUCTOR	100μH			
C2539	1-165-319-11	CERAMIC CHIP	0.1μF		50V								
C2540	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V		L2508	1-408-605-31	INDUCTOR	15μH			
C2541	1-163-135-00	CERAMIC CHIP	560pF	5%	50V		L2509	1-410-419-21	INDUCTOR	10μH			
C2542	1-163-255-11	CERAMIC CHIP	150pF	5%	50V								
C2543	1-163-133-00	CERAMIC CHIP	470pF	5%	50V				<TRANSISTOR>				
C2544	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V								
C2545	1-163-113-00	CERAMIC CHIP	68pF	5%	50V		Q2324	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
C2546	1-165-319-11	CERAMIC CHIP	0.1μF		50V		Q2325	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
							Q2326	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
C2547	1-165-319-11	CERAMIC CHIP	0.1μF		50V		Q2327	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2548	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V		Q2335	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2550	1-163-229-11	CERAMIC CHIP	12pF	5%	50V								
C2551	1-163-038-11	CERAMIC CHIP	0.1μF		25V		Q2338	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
C2552	1-163-038-11	CERAMIC CHIP	0.1μF		25V		Q2341	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
							Q2342	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2553	1-163-038-11	CERAMIC CHIP	0.1μF		25V		Q2504	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2567	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		Q2506	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2568	1-104-664-11	ELECT	47μF	20%	16V								
C2571	1-126-966-11	ELECT	33μF	20%	16V		Q2507	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2572	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		Q2508	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
							Q2509	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
C2573	1-104-664-11	ELECT	47μF	20%	16V		Q2510	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R			
C2575	1-126-966-11	ELECT	33μF	20%	16V		Q2511	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
C2586	1-126-933-11	ELECT	100μF	20%	16V								
C2588	1-126-933-11	ELECT	100μF	20%	16V		Q2512	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR			
		<CONNECTOR>											
CN2301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P											
		<DIODE>											
D2502	8-719-914-43	DIODE DAN202K-T-146											
D2503	8-719-914-43	DIODE DAN202K-T-146											
D2504	8-719-914-43	DIODE DAN202K-T-146											
		<DELAY LINE>											
DL2501	1-234-532-11	FILTER, LOW PASS											
DL2502	1-234-532-11	FILTER, LOW PASS											
		<FILTER>											
FL2301	1-236-071-11	ENCAPSULATED COMPONENT											
FL2501	1-234-515-11	FILTER, LOW PASS											
		<IC>											
IC2501	8-759-710-86	IC NJM2233BM(TE2)											
IC2502	8-759-196-69	IC BA7655AF-E2											
IC2503	8-759-710-24	IC NJM319M-TE2											



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q2566	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R	R2528	1-216-033-00	RES-CHIP	220 5% 1/10W
Q2567	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R2529	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
Q2568	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R2530	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q2569	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	R2531	1-216-631-11	METAL CHIP	150 0.5% 1/10W
Q2571	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R	R2532	1-216-073-00	RES-CHIP	10K 5% 1/10W
				R2534	1-216-049-11	RES-CHIP	1K 5% 1/10W
		<RESISTOR>		R2535	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2301	1-216-017-91	RES-CHIP	47 5% 1/10W	R2536	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W
R2306	1-216-295-11	SHORT	0	R2537	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R2307	1-216-295-11	SHORT	0	R2538	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2334	1-216-017-91	RES-CHIP	47 5% 1/10W	R2539	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R2335	1-216-017-91	RES-CHIP	47 5% 1/10W	R2540	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2336	1-216-017-91	RES-CHIP	47 5% 1/10W	R2541	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W
R2337	1-216-017-91	RES-CHIP	47 5% 1/10W	R2542	1-216-647-11	METAL CHIP	680 0.5% 1/10W
R2338	1-216-017-91	RES-CHIP	47 5% 1/10W	R2543	1-216-647-11	METAL CHIP	680 0.5% 1/10W
R2350	1-216-017-91	RES-CHIP	47 5% 1/10W	R2544	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2351	1-216-025-11	RES-CHIP	100 1/10W	R2545	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R2352	1-216-025-11	RES-CHIP	100 1/10W	R2546	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W
R2370	1-216-295-11	SHORT	0	R2547	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R2371	1-216-045-00	RES-CHIP	680 1/10W	R2548	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2372	1-216-071-00	RES-CHIP	8.2K 1/10W	R2549	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R2373	1-216-295-11	SHORT	0	R2551	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W
R2374	1-216-045-00	RES-CHIP	680 5% 1/10W	R2552	1-216-295-11	SHORT	0
R2375	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2553	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2383	1-216-295-11	SHORT	0	R2554	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2400	1-216-295-11	SHORT	0	R2555	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2401	1-216-077-91	RES-CHIP	15K 5% 1/10W	R2556	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2402	1-216-081-00	RES-CHIP	22K 5% 1/10W	R2557	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R2403	1-216-041-00	RES-CHIP	470 5% 1/10W	R2558	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2404	1-216-041-00	RES-CHIP	470 5% 1/10W	R2559	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2406	1-216-295-11	SHORT	0	R2560	1-216-643-11	METAL CHIP	470 0.5% 1/10W
R2407	1-216-658-11	METAL CHIP	2K 0.5% 1/10W	R2561	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W
R2418	1-216-017-91	RES-CHIP	47 5% 1/10W	R2562	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
R2421	1-216-648-11	METAL CHIP	750 0.5% 1/10W	R2563	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
R2422	1-216-295-11	SHORT	0	R2564	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
R2426	1-216-637-11	METAL CHIP	270 0.5% 1/10W	R2565	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2427	1-216-637-11	METAL CHIP	270 0.5% 1/10W	R2566	1-216-648-11	METAL CHIP	750 0.5% 1/10W
R2428	1-216-045-00	RES-CHIP	680 5% 1/10W	R2567	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2502	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W	R2568	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W
R2503	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	R2569	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R2505	1-216-649-11	METAL CHIP	820 0.5% 1/10W	R2570	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2506	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R2571	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W
R2511	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R2572	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W
R2513	1-216-637-11	METAL CHIP	270 0.5% 1/10W	R2573	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R2514	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R2574	1-216-295-11	SHORT	0
R2515	1-216-643-11	METAL CHIP	470 0.5% 1/10W	R2575	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R2516	1-216-649-11	METAL CHIP	820 0.5% 1/10W	R2576	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R2517	1-216-643-11	METAL CHIP	470 0.5% 1/10W	R2577	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2518	1-216-643-11	METAL CHIP	470 0.5% 1/10W	R2578	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2519	1-216-643-11	METAL CHIP	470 0.5% 1/10W	R2579	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R2521	1-216-651-11	METAL CHIP	1K 0.5% 1/10W	R2580	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R2522	1-216-025-11	RES-CHIP	100 5% 1/10W	R2581	1-216-643-11	METAL CHIP	470 0.5% 1/10W
R2523	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2582	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R2525	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R2583	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R2526	1-216-033-00	RES-CHIP	220 5% 1/10W	R2584	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2527	1-216-017-91	RES-CHIP	47 5% 1/10W	R2585	1-216-081-00	RES-CHIP	22K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2586	1-216-073-00	RES-CHIP	10K 5% 1/10W	* A-1395-005-A S BOARD, COMPLETE *****			
R2587	1-216-055-00	RES-CHIP	1.8K 5% 1/10W				
R2588	1-216-645-11	METAL CHIP	560 0.5% 1/10W				
R2589	1-216-055-00	RES-CHIP	1.8K 5% 1/10W				
R2590	1-216-647-11	METAL CHIP	680 0.5% 1/10W				
				<CAPACITOR>			
R2591	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	C4701	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
R2592	1-216-645-11	METAL CHIP	560 0.5% 1/10W	C4702	1-163-241-11	CERAMIC CHIP 39pF	5% 50V
R2593	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	C4708	1-163-087-00	CERAMIC CHIP 4pF	50V
R2594	1-216-643-11	METAL CHIP	470 0.5% 1/10W	C4709	1-163-087-00	CERAMIC CHIP 4pF	50V
R2611	1-216-641-11	METAL CHIP	390 0.5% 1/10W	C4710	1-104-664-11	ELECT 47μF	20% 16V
R2614	1-216-665-11	METAL CHIP	3.9K 0.5% 1/10W	C4711	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2615	1-216-657-11	METAL CHIP	1.8K 0.5% 1/10W	C4712	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2640	1-216-049-11	RES-CHIP	1K 5% 1/10W	C4713	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2642	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W	C4714	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
R2644	1-216-045-00	RES-CHIP	680 5% 1/10W	C4715	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
R2647	1-216-045-00	RES-CHIP	680 5% 1/10W	C4716	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
R2648	1-216-637-11	METAL CHIP	270 0.5% 1/10W	C4717	1-110-501-11	CERAMIC CHIP 0.33μF	10% 16V
R2651	1-216-045-00	RES-CHIP	680 5% 1/10W	C4718	1-164-506-11	CERAMIC CHIP 4.7μF	16V
R2652	1-216-647-11	METAL CHIP	680 0.5% 1/10W	C4719	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2653	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C4722	1-104-664-11	ELECT 47μF	20% 16V
R2654	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C4723	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2657	1-216-045-00	RES-CHIP	680 5% 1/10W	C4727	1-164-506-11	CERAMIC CHIP 4.7μF	16V
R2664	1-216-049-11	RES-CHIP	1K 5% 1/10W	C4728	1-165-319-11	CERAMIC CHIP 0.1μF	50V
R2666	1-216-045-00	RES-CHIP	680 5% 1/10W	C4729	1-164-505-11	CERAMIC CHIP 2.2μF	16V
R2669	1-216-045-00	RES-CHIP	680 5% 1/10W	C4731	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R2670	1-216-637-11	METAL CHIP	270 0.5% 1/10W	C4732	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R2671	1-216-045-00	RES-CHIP	680 5% 1/10W	C4735	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2672	1-216-647-11	METAL CHIP	680 0.5% 1/10W	C4736	1-126-964-11	ELECT 10μF	20% 50V
R2673	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C4737	1-126-964-11	ELECT 10μF	20% 50V
R2674	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C4738	1-126-933-11	ELECT 100μF	20% 16V
R2675	1-216-045-00	RES-CHIP	680 5% 1/10W	C4739	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2677	1-216-073-00	RES-CHIP	10K 5% 1/10W	C4740	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2679	1-216-073-00	RES-CHIP	10K 5% 1/10W	C4741	1-126-933-11	ELECT 100μF	20% 16V
R2682	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W	C4742	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R2684	1-216-648-11	METAL CHIP	750 0.5% 1/10W	C4743	1-104-664-11	ELECT 47μF	20% 16V
R2687	1-216-049-11	RES-CHIP	1K 5% 1/10W	C4744	1-126-964-11	ELECT 10μF	20% 50V
R2688	1-216-295-11	SHORT	0	C4745	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2690	1-216-295-11	SHORT	0	C4746	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R2693	1-216-295-11	SHORT	0	C4747	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
R2694	1-216-295-11	SHORT	0	C4748	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
R2696	1-216-295-11	SHORT	0	C4751	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R2697	1-216-049-11	RES-CHIP	1K 5% 1/10W	C4752	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R2700	1-216-295-11	SHORT	0	C4755	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
R2701	1-216-295-11	SHORT	0	C4756	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R2702	1-216-295-11	SHORT	0	C4757	1-107-682-11	CERAMIC CHIP 1μF	10% 16V
R2704	1-216-295-11	SHORT	0	C4758	1-107-682-11	CERAMIC CHIP 1μF	10% 16V
R2705	1-216-049-11	RES-CHIP	1K 5% 1/10W	C4759	1-107-682-11	CERAMIC CHIP 1μF	10% 16V
*****				C4761	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C4762	1-164-505-11	CERAMIC CHIP 2.2μF	16V
				C4763	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C4764	1-104-664-11	ELECT 47μF	20% 16V
				C4766	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
				C4767	1-163-007-11	CERAMIC CHIP 680pF	10% 50V
				C4768	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
				C4769	1-163-007-11	CERAMIC CHIP 680pF	10% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<FILTER>				<RESISTOR>			
CF4701	1-409-327-00	TRAP, CERAMIC (6.5MHz)		R4701	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
CF4702	1-760-106-11	FILTER, CERAMIC		R4702	1-216-049-11	RES-CHIP 1K	5% 1/10W
CF4703	1-567-100-00	FILTER, CERAMIC		R4703	1-216-049-11	RES-CHIP 1K	5% 1/10W
CF4704	1-760-450-21	FILTER, CERAMIC		R4704	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
				R4706	1-216-049-11	RES-CHIP 1K	5% 1/10W
<CONNECTOR>				R4707	1-216-037-00	RES-CHIP 330	5% 1/10W
CN4701	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R4709	1-216-295-11	SHORT 0	
				R4710	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4711	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4712	1-216-025-11	RES-CHIP 100	5% 1/10W
<DIODE>				R4715	1-216-025-11	RES-CHIP 100	5% 1/10W
D4701	8-719-047-16	DIODE BAS216		R4720	1-216-295-11	SHORT 0	
D4702	8-719-158-49	DIODE UDZ-TE-17-12B		R4725	1-216-025-11	RES-CHIP 100	5% 1/10W
D4703	8-719-158-49	DIODE UDZ-TE-17-12B		R4726	1-216-295-11	SHORT 0	
D4704	8-719-047-16	DIODE BAS216		R4727	1-216-025-11	RES-CHIP 100	5% 1/10W
D4705	8-719-421-57	DIODE MA73-TW					
D4706	8-719-421-57	DIODE MA73-TW		R4730	1-216-081-00	RES-CHIP 22K	5% 1/10W
D4707	8-719-421-57	DIODE MA73-TW		R4731	1-216-049-11	RES-CHIP 1K	5% 1/10W
				R4732	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4733	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4737	1-216-295-11	SHORT 0	
<FERRITE BEAD>				R4738	1-216-295-11	SHORT 0	
FB4701	1-414-235-22	INDUCTOR 0μH		R4739	1-216-295-11	SHORT 0	
				R4740	1-216-295-11	SHORT 0	
				R4741	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4742	1-216-025-11	RES-CHIP 100	5% 1/10W
<FILTER>				R4743	1-216-025-11	RES-CHIP 100	5% 1/10W
FL4701	1-233-764-21	FILTER		R4747	1-216-063-91	RES-CHIP 3.9K	5% 1/10W
FL4704	1-236-071-11	ENCAPSULATED COMPONENT		R4748	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
FL4705	1-236-071-11	ENCAPSULATED COMPONENT		R4749	1-216-089-11	RES-CHIP 47K	5% 1/10W
				R4752	1-216-043-91	RES-CHIP 560	5% 1/10W
<IC>				R4757	1-216-089-11	RES-CHIP 47K	5% 1/10W
IC4702	8-759-654-42	IC MSP3410D-C5QA-B4		R4758	1-216-089-11	RES-CHIP 47K	5% 1/10W
IC4703	8-759-701-36	IC NJM3403AM(TE2)		R4759	1-216-089-11	RES-CHIP 47K	5% 1/10W
IC4704	8-759-478-90	IC U2861B-μFP-G3		R4760	1-216-089-11	RES-CHIP 47K	5% 1/10W
IC4705	8-752-072-94	IC CXA1875AM-T4		R4761	1-216-089-11	RES-CHIP 47K	5% 1/10W
<COIL>				R4769	1-216-025-11	RES-CHIP 100	5% 1/10W
L4701	1-414-183-41	INDUCTOR 10μH		R4773	1-216-295-11	SHORT 0	
L4702	1-414-189-31	INDUCTOR 100μH		R4777	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
L4703	1-414-189-31	INDUCTOR 100μH		R4778	1-216-049-11	RES-CHIP 1K	5% 1/10W
				R4779	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
<TRANSISTOR>				R4780	1-216-295-11	SHORT 0	
Q4701	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R4781	1-216-035-00	RES-CHIP 270	5% 1/10W
Q4702	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R4782	1-216-081-00	RES-CHIP 22K	5% 1/10W
Q4703	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R4783	1-216-081-00	RES-CHIP 22K	5% 1/10W
Q4706	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R4784	1-216-081-00	RES-CHIP 22K	5% 1/10W
Q4707	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q4708	1-801-806-11	TRANSISTOR DTC144EKA-T146		R4785	1-216-295-11	SHORT 0	
Q4709	1-801-806-11	TRANSISTOR DTC144EKA-T146		R4786	1-216-043-91	RES-CHIP 560	5% 1/10W
Q4710	1-801-806-11	TRANSISTOR DTC144EKA-T146		R4787	1-216-043-91	RES-CHIP 560	5% 1/10W
Q4711	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R4788	1-216-043-91	RES-CHIP 560	5% 1/10W
Q4712	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R4789	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
				R4790	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
				R4791	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
				R4792	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4793	1-216-025-11	RES-CHIP 100	5% 1/10W
				R4794	1-216-295-11	SHORT 0	

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KF-50SX100/50SX100K/50SX100U
RM-903 RM-903 RM-903



REF. NO.	PART NO.	DESCRIPTION	REMARK
R4796	1-216-295-11	SHORT 0	
R4797	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4798	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4799	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4800	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4801	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4802	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
<CRYSTAL>			
X4701	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)	

	* A-1391-060-A	T MOUNT *****	
<CONNECTOR>			
CN8001*	1-564-506-11	PLUG, CONNECTOR 3P	
<SWITCH>			
S8001	1-570-245-11	SWITCH, MICRO (LAMP DOOR)	

MISCELLANEOUS *****			
Δ A-1484-885-A LAMP BLOCK ASSY			
Δ A-1485-164-A OPTICS UNIT BLOCK ASSY			
Δ 1-419-965-11 COIL, CHOKE 27.0mH			
Δ 1-468-510-11 POWER BLOCK			
	1-529-714-11	SPEAKER (10cm)	
	1-529-715-11	SPEAKER (2cm)	
	1-529-716-11	SPEAKER (13X7cm)	
	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
	1-543-982-11	CORE, FERRITE	
Δ 1-698-696-21 FAN, DC			
Δ 1-765-286-11 CORD, POWER (50SX100/50SX100K)			
Δ 1-776-204-11 CORD, POWER (50SX100U)			
	1-790-082-11	CABLE, RF	
Δ 1-900-253-70 THERMOSTAT			

REF. NO.	PART NO.	DESCRIPTION	REMARK
ACCESSORIES & PACKING MATERIALS			

	X-4033-430-1	WRENCH ASSY	
	X-4038-257-1	ASSY, CLEANING CLOTH	
*	4-030-895-01	JOINT	
*	4-059-461-01	BAG, PROTECTION	
*	4-078-285-01	INDIVIDUAL CARTON	
*	4-078-286-01	TRAY	
*	4-078-287-01	BOARD, TOP	
*	4-078-288-01	BOARD, BOTTOM	
*	4-078-289-01	CUSHION (UPPER) (ASSY)	
*	4-078-290-01	CUSHION (LOWER) (ASSY)	
4-078-836-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, ITALIAN, FRENCH, DUTCH, GREEK, TURKISH) (50SX100)		
4-078-836-21	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, DANISH, NORWEGIAN, SWEDISH, FINNISH) (50SX100)		
4-078-836-31	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, HUNGARIAN, RUSSIAN, BULGARIAN) (50SX100K)		
4-078-836-41	MANUAL, INSTRUCTION (ENGLISH) (50SX100U)		
4-382-854-11	SCREW (M3X10), P, SW (+)		
4-392-004-01	CLIP		
REMOTE COMMANDER			

1-476-360-11	REMOTE COMMANDER (RM-903)		

